



BADGER STATE

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 28th Year
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1997 National Boy Scout Jamboree and Amateur Radio K2BSA/4

By Gene Santoski, K9UTQ

There was sweltering heat and humidity which is a typical Virginia summer and the week of July 28th through August 5, 1997 was no exception. However, that did not hinder the fun and adventure experienced by more than 34,000 Boy Scouts and leaders at the 1997 National Boy Scout Jamboree at Ft. A.P. Hill near Fredricksburg, Virginia. In less than 24 hours, the Jamboree became the 7th largest berg in Virginia! There were over 15,000 tents and the new metropolis of Scouts covered 9 square miles!

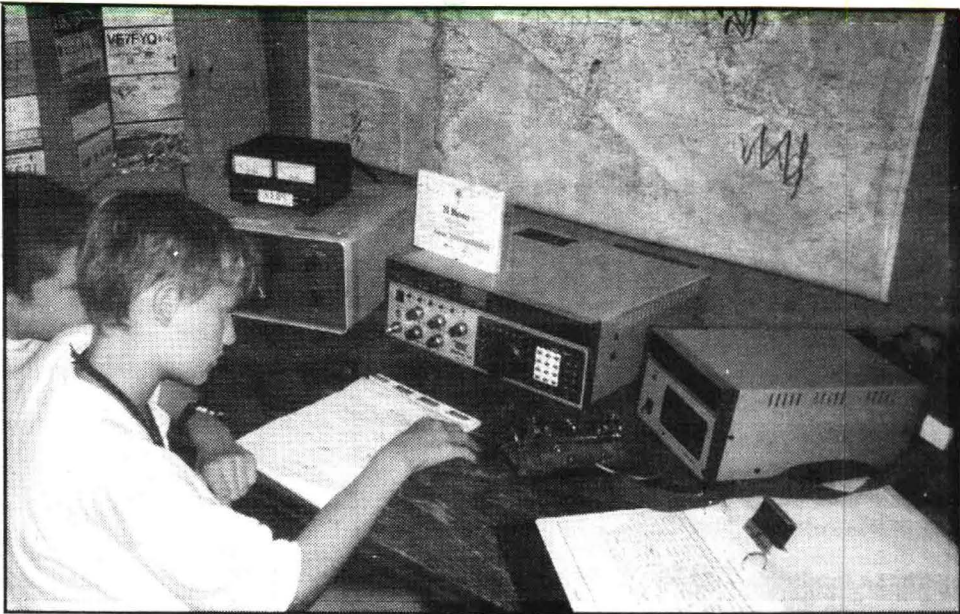
The Jamboree is held there every four years to enable Scouts and Scouters to have the experience of a lifetime meeting new friends from all over the world and participating in a myriad of activities. This one was special because it was the celebration of 60 years since the first one was held in 1937. It was also the first time that Scouts from the former Communist-held countries were able to attend because Scouting was forbidden there until recently. In all, 31 countries were represented. The theme of this Jamboree was "Character Counts".

At least two years of planning go into putting together a Jamboree. The logistics of putting on an activity of this magnitude is mind-boggling, to say the least. The U.S. Army works together with the National Boy Scout Office in Irving, Texas to plan the event. Much coordination and cooperation is required by all those in-

everything from American Heritage to Wood Carving. In the merit badge midway, Scouts could work on any of over 80 merit badges including RADIO!! More on that later. There was even a daily newspaper (*Jamboree Today*) and an FM radio station (QBSA) playing all the latest songs and keeping everyone informed of events.

There were several highlights during the week including two huge arena (outdoor) shows with close to 40,000 in attendance at each. The first arena show was visited by President Bill Clinton. The security measures taken for that event were awesome! Everyone was checked (x-ray) upon entry to the arena area. The President's speech was followed by an action-filled show by the Disney Corporation. The show ended with a spectacular laser show. The second arena extravaganza featured Louise Mandrell who put on a spectacular show! This was followed by the largest fireworks display in North America in 1997!! Needless to say, everyone went wild. To me, the most touching part was when 35,000 candles were lit from one fire which represented the "Light of Scouting". I've seen this three times now and each time it made the hairs on my neck stand out. Really a memorable moment.

Before I get too carried away here, let me get back to the K2BSA operations at the Jamboree.



K2BSA/4 is on the air!

Photo by Gene Santoski/K9UTQ

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Edited by Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901 • kebnetter@palacenet.net

Swapfests and Other Social Events

SUNDAY, JANUARY 11, 1998. 26th annual Midwinter Swapfest, sponsored by the West Allis Radio Amateurs Club, Waukesha County Expo Center Forum, Waukesha, WI. Contact WARAC Swapfest, PO Box 1072, Milwaukee, WI 53201.

SUNDAY, JANUARY 25, 1998. Wheaton Community Radio Amateurs annual Midwinter Hamfest and Electronic Flea Market at the Odeum Exposition Center in Villa Park, Illinois from 8:00 a.m. to 2:00 p.m. Contact: WCARA, PO Box QSL, Wheaton, IL 60189 or web page: www.w9cuu.org

TUESDAY, FEBRUARY 24, 1998. Red Cedar Repeater Association Auction. Contact: Steve Hart, KA9OMC, E616 810th Ave., Knapp, WI 54749-9020. (715) 665-2374.

SUNDAY, MARCH 8, 1998. SEWFARS Swapfest, Waukesha County expo Center, Waukesha, WI. Contact: SEWFARS Inc., PO Box 102, Delafield, WI 53018, (414) 358-1003.

SUNDAY, MARCH 15, 1998. Tri County Hamfest 1998, Jefferson WI. Contact TCARC, 213 Frederick St., Fort Atkinson, WI 53538. (920) 563-6381.

SUNDAY, APRIL 5, 1998. Madison Swapfest. John Q Hammons Trade Center. Contact: MARA, PO Box 8890, Madison, WI 53708-8890. (608) 245-8890.

SATURDAY, MAY 2, 1998. Twentieth Annual Cedarburg Swapfest. Contact: Ozaukee Radio Club, W58 N985 Essex Drive. Cedarburg, WI 53012-1439. (414) 377-2784 or (414) 284-3271.

SUNDAY, JUNE 7, 1998, Adams County Hamfest. Contact: Nick Segina, WB9YKK. (608) 339-9014.

SUNDAY, JUNE 7, 1998, 21st annual CWRA Swapfest, U.S. Army Reserve Center, Junction City, WI. Contact: John Feltz, WA9JN, 973 E First St., Junction City, WI 54443-9614. (715) 457-2506. e-mail jfw9jn@tznnet.com

SATURDAY, JULY 11, 1998. South Milwaukee Amateur Radio Club Swapfest, South Milwaukee, WI. (414) 762-3235.

See also the back page and flyer ads for additional information on many of these events.

Let us know of your dates as soon as you know them. We will list them and perhaps help avoid conflicts with other events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.



CLUB MEETINGS

Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the October 1997 meetings column for the latest complete listing. There have been no changes reported since that listing.

the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebnetter. Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebnetter. Club, swapfest, and Test Point information should be sent to Ken Ebnetter.

Swapfest ads should be sent to Jim Romelfanger NO LATER THAN EIGHT WEEKS BEFORE THE EVENT'S DATE.

Subscriptions should be sent, with check or money order, to Jim Decker.

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Badger State Smoke Signals is incorporated as a Wisconsin non-stock, non-profit organization.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

Badger State Smoke Signals

Amateur Radio Education and Information

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Subscriptions

1 year	(12 issues)	\$13.95
2 years	(24 issues - save \$1.95)	\$25.95
3 years	(36 issues - save \$3.90)	\$37.95

Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1. The only exception is for participating clubs' minutes. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than

The Test Point



Amateur Radio Examination Locations
and Schedules in the Wisconsin Area

December 06, 1997	Hudson, WI
December 06, 1997	Oshkosh (Omro), WI
December 06, 1997	Racine, WI
December 06, 1997	Stevens Point, WI
December 06, 1997	St. Paul, MN
December 06, 1997	Pewaukee, WI
December 11, 1997	Apple Valley, MN
December 13, 1997	Blaine, MN
December 13, 1997	Madison, WI
December 13, 1997	Marshfield, WI
December 13, 1997	Marshfield, WI
December 13, 1997	Oak Creek, WI (MRAC)
December 13, 1997	Redgranite, WI
December 13, 1997	Juneau, WI
December 13, 1997	Friendship, WI
December 16, 1997	Eden Prairie, MN
December 20, 1997	Cottage Grove, MN
December 20, 1997	Loves Park, IL
December 20, 1997	Milwaukee, WI (BE)
December 27, 1997	Bloomington, MN
January 03, 1998	Oshkosh (Omro), WI
January 03, 1998	St. Paul, MN
January 08, 1998	Apple Valley, MN
January 10, 1998	Blaine, MN
January 10, 1998	Eau Claire, WI
January 10, 1998	Oak Creek, WI (MRAC)
January 17, 1998	Cottage Grove, MN
January 17, 1998	Loves Park, IL
January 17, 1998	Milwaukee, WI (BE)
January 17, 1998	Sheboygan, WI
January 17, 1998	Redgranite, WI
January 19, 1998	Madison, WI
January 20, 1998	Eden Prairie, MN
January 24, 1998	Appleton, WI
January 24, 1998	Bloomington, MN
January 31, 1998	Milwaukee, WI (MRAC)
January 31, 1998	Tomahawk, WI
February 07, 1998	Oshkosh (Omro), WI
February 07, 1998	Racine, WI
February 07, 1998	St. Paul, MN
February 12, 1998	Apple Valley, MN
February 14, 1998	Blaine, MN
February 14, 1998	Madison, WI
February 14, 1998	Oak Creek, WI (MRAC)
February 17, 1998	Eden Prairie, MN
February 21, 1998	Cottage Grove, MN
February 21, 1998	Loves Park, IL
February 21, 1998	Milwaukee, WI (BE)
February 21, 1998	Redgranite, WI
February 28, 1998	Bloomington, MN
February 28, 1998	Milwaukee, WI (MRAC)
February 28, 1998	Tomahawk, WI
March 07, 1998	Oshkosh (Omro), WI
March 07, 1998	Racine, WI
March 07, 1998	St. Paul, MN
March 12, 1998	Apple Valley, MN
March 14, 1998	Blaine, MN
March 14, 1998	Madison, WI
March 14, 1998	Oak Creek, WI (MRAC)
March 17, 1998	Eden Prairie, MN
March 18, 1998	Sheboygan, WI
March 21, 1998	Cottage Grove, MN
March 21, 1998	Loves Park, IL
March 21, 1998	Milwaukee, WI (BE)
March 21, 1997	Redgranite, WI
March 28, 1998	Bloomington, MN
March 28, 1998	Milwaukee, WI (MRAC)
March 28, 1998	Tomahawk, WI
March 28, 1997	Menomonie, WI
May 16, 1998	Sheboygan, WI
July 15, 1998	Sheboygan, WI

September 12, 1998 Sheboygan, WI
 November 07, 1997 Menomonie, WI
 November 18, 1998 Sheboygan, WI
 Monthly, 1st Sat. Racine, WI
 (except January, July & August)
 Monthly, 1st Sat. Oshkosh (Omro), WI
 Monthly, 1st Sat. St. Paul, MN
 Monthly, 2nd Thu. Apple Valley, MN
 Monthly, 2nd Sat. Oak Creek, WI (MRAC)
 Monthly, 2nd Sat. Madison, WI
 Monthly, 2nd Sat. Blaine, MN
 Monthly, 3rd Tue. Eden Prairie, MN
 Monthly, 3rd Sat. Milwaukee, WI (BE)
 Monthly, 3rd Sat. Loves Park, IL
 Monthly, 3rd Sat. Cottage Grove, MN
 Monthly, 4th Sat. Bloomington, MN
 Monthly, Last Sat. Milwaukee, WI (MRAC)
 (except December)
 Monthly, Last Sat. Tomahawk, WI
 (January thru October only)
 Quarterly Marshfield, WI
 (Second Saturday every third month.)
 Quarterly Eau Claire, WI
 (Second Saturday Jan., Apr., & Oct.)
 plus annual summer hamfest.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c/ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$6.25 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

For those with internet access, a listing of exam sessions is available from:

<http://www.arrl.org/arrlvec/examsearch.shtml>

By checking this page, a person can find out registered VE sessions anywhere in US and some overseas. You can search by country, state or zip code. The listing is not specific to any particular VEC, it is a master database. (Thanks to KB9EQI for information.)

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

SECOND SATURDAY - OAK CREEK, WI
 LAST SATURDAY - MILWAUKEE, WI

SECOND SATURDAY DATE: 1:00 p.m. to 3:00 p.m. at Wauwatosa Savings Bank, 6560 S. 27th St., Oak Creek, WI.

LAST SATURDAY DATES: (except December): 9:00 a.m. to 12:00 noon at Amateur Electronic Supply (AES), 5710 W. Good Hope Rd., Milwaukee, WI. Note: For Additional Information: Call (414) 466-HAMS (Answering Machine).

Bring along your ORIGINAL license, CSCE (if any) and one (1) good quality photocopy of each, plus two forms of identification, such as a driver's license, etc. Also required is \$6.25 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: Print the grade of license you are applying for, your name, address, and telephone number. Send the card to MRAC/VEC, Milwaukee Radio Amateurs Club, PO Box 25707, Milwaukee, WI 53225.

BADGER EXAMINERS (BE) - MILWAUKEE

Badger Examiners group now testing at AES (Amateur Electronic Supply) at 6th and Good Hope, every third Saturday MORNING. Exam times are not 9:30 a.m. to 12:00 noon, at the old Sierman Printing shop, just 300 feet west of the AES store. Novice to Extra are offered, and all test materials are provided, fee is \$6.25, and bring your original license, or CSCE if needed. Also available are Commercial license exams GROL (General Radiotelephone license), GMDSS, Telegraph, Etc. Fee is \$35.00. For more information call Gary Sharbuno, W19M at (414) 355-0237.

MADISON, WI

VE exams are held in Madison every second Saturday

morning of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$6.25, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Talk in on 147.87/27. Inquiries and registrations should be directed to Robert N. Jensen, W0WLN, 5616 Cambridge lane #6, Racine, WI. Telephone (414) 886-8551.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test sessions in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Testing starting at 8 a.m. For Appleton information, contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (920) 730-0967. For Manitowoc or Kaukauna information, contact Larry Siebers, KD9IA (920) 759-1167.

STEVENS POINT, WI (ARRL/VE)

Held in room 107, of the UWSP Science Building, on the corner of Fourth and Reserve Streets in Stevens Point. Contact Joe Larson, N9JW evenings at (715) 344-1182.

PEWAUKEE, WI

Kettle Moraine Exam Team. Held at the Pewaukee WCTC Campus Science Building, Room S101. 9:00 a.m. to Noon. Contact Al Johnson, AA7CS. (414) 568-0836. 103357.3222@COMPUSERV.COM

OSHKOSH (OMRO)

The Oshkosh VE Team will administer Amateur Radio exams monthly on the first Saturday. Registration begins at 8:30 a.m. and exams will be given from 9 a.m. until noon at the Omro Community Center, 130 W. Larrabee, Omro, WI. Walk-ins welcomed. Bring a good quality photocopy of your original license and any other necessary documents such as a CSCE, etc. The first session will be through W5YI/VEC, and then sessions will alternate between ARRL/VEC and W5YI/VEC. The exam fee is \$6.25. For more information, please call Dick Lemme, K9FA, at (920) 235-0987, e-mail lemme@vbe.com, or write Dick at 826 Jefferson Street, Oshkosh, WI 54901.

EAU CLAIRE

The Eau Claire ARC will hold exam sessions on the second Saturday in the months of January, April, and October, as well as on the date of their annual hamfest during the summer. For further information contact: Carl F. Searing, W9NW, 1129 Mc Kinley Road, Eau Claire, WI 54703-2219. (715) 834-1303.

REDGRANITE, WI (W5YI/VEC)

The Radio Amateurs of Wisconsin (RAW) will be holding test sessions at the Civic Center in Redgranite, 202 Pine River Road, one block from Highway 21. Turn north by Mosier's Sporting Goods store. Registration at 9:00 a.m. Bring two forms of identification, \$6.25 per test, two copies of all original documents, CSCE's, Licenses, etc. along with original documents. For further information, contact: Mark Miller, N9WT, (920) 231-1662 or Mike O'Connor, K9II (920) 231-7093.

MENOMONIE, WI

The Menomonie, WI VE team will conduct its 1998 exams on Saturday, March 28, 1998 and Saturday November 7, 1998. At UW-Stout Communication Center, 820 South Broadway, Menomonie, WI. Walk-ins only, 9:00 a.m. to 11:00 a.m. Contact: Jim Ley, NX9F, (715) 232-1397 (W) or (715) 235-3998 (H).

WISCONSIN DELLS, WI

Wisconsin Dells City Hall, City Council Chambers. 10:00 a.m. to 2:00 p.m. Contact: K9WD, (608) 254-2895.

HUDSON, WI

Testing is held at the St. Croix County emergency government Center on Carmichael road in Hudson, WI. Registration begins at 8:00 a.m. and testing begins promptly at 9:00 a.m. Contact: Greg Miller, KB9JHL, 503 4th St., Hudson, WI 54016. (715) 386-9857.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with

testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WBOKIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

SHEBOYGAN, WI

Wednesday dates: Registration 1830 hrs, testing 1900 hrs.

Saturday dates: Registration 0830 hrs, testing 0900 hrs.

Testing site is: Red Cross/Boy Scout Office Building (lower level), 2032 Erie Ave., Sheboygan, WI.

Test site has limited handicap accessibility. Walk-ins are OK but preregistration would be appreciated. Test fee is \$6.25. Make checks payable to SCARC VE Testing. All class tests administered. Contact: Art Pahr, K9XJ, (920) 876-2370. e-mail <k9xj@excel.net>

ADAMS/FRIENDSHIP WI (ARRL/VEC)

The Adams County Amateur Radio Club will be sponsoring an Amateur Radio Exam Session on Saturday, December 13th, 1997 beginning at 2:00 PM. The exam session location will be the Friendship Village Hall on west Lake Street in Friendship, WI. Friendship Village Hall / Fire Department is located approximately 1/2 mile west of State Highway 13 on County Trunk Highway J (aka west Lake Street).

Walk-ins will be accepted and are invited. Standard exam fees and procedures will be followed. Morse Code exams are in multiple-choice format. If a candidate is unsuccessful and would like to retake an element (Morse or Written) they will be accommodated on a time available basis upon payment of an additional exam fee.

As a reminder the exam fee for 1997 is \$6.25. A fee is charged to all candidates except those only taking element 1A (5 WPM Morse) or element 2 (Novice Written). Exam fees are charged to candidates taking elements 1A and 2 resulting in an UPGRADE of license class.

Also note that effective January 1, 1998 all previous versions of FCC form 610 (Application for Amateur Station License) will be void.

ARLINGTON HEIGHTS, IL (ARRL/VEC)

Contact: Frank Stankiewicz, (847) 437-1464.

CEDARBURG, WI - ORC HAMFEST

EAU CLAIRE, WI - ECARCHAMFEST

GREEN BAY, WI - ARESHAMFEST

HAYWARD, WI - HAYWARD HAMFEST

KAUKAUNA, WI - SWAFFEST

MANITOWOC, WI, LAKESHORE HAMFEST

MARSHFIELD, WI - HAMFEST

OAK CREEK, WI - SMARCHAMFEST

RACINE, WI - RACINE HAMFEST

RHINELANDER, WI - NWARC SWAFFEST

ROCKFORD, IL - RARC HAMFEST

ROTHSCHILD, WI - WVRA HAMFEST

SOUTH MILWAUKEE, WI - SMARCHAMFEST

STEVENS POINT, WI - CWRA SWAFFEST

WAUKESHA, WI - KMRA SWAFFEST

WAUKESHA, WI - MIDWINTER SWAFFEST

DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

DUBUQUE, IA - ARRL/VEC

Dubuque Hamfest. Contact: Carl Clark, N0KAX, 2145 Delicia Drive, Dubuque, IA 52001. (319) 557-9149.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

MINNESOTA TEST INFORMATION

From "The Ground Wave", Saint Paul Radio Club.

Saint Paul Radio Club (SPRC)

Contact: Jay Bellows, K0QBE (612) 222-7253

Test Site: St. Paul Technical College

235 Marshall Ave.

St Paul, MN

TESTING: First Saturday of the month, 8:30 a.m.

Anoka Amateur Radio Club (AARC)

Contact: Joe Wivoda, N0AU, (612) 753-6481

Test Site: Blaine City Hall

9150 Central Ave NE

Blaine, MN

TESTING: Second Saturday of the month, 9:00 a.m.

Bloomington Office of Emergency Management

(Bloomington Amateur Radio Club (BARC))

Contact: Dan Royer, KE0OR (612) 888-9756

Test Site: Creekside Community Center

98th & Penn Avenue S

Bloomington, MN

TESTING: Fourth Saturday of the month, 9:00 a.m.

Valley Amateur Radio Club (VARC)

Contact: Bill Martin, KA0CIR (612) 432-0438 Test Site:

Hayes Community Center

14601 Hayes Road

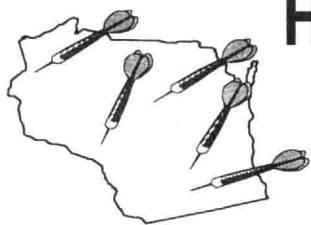
Apple Valley, MN

TESTING: Second Thursday of the month 7:00 p.m.

W5YI

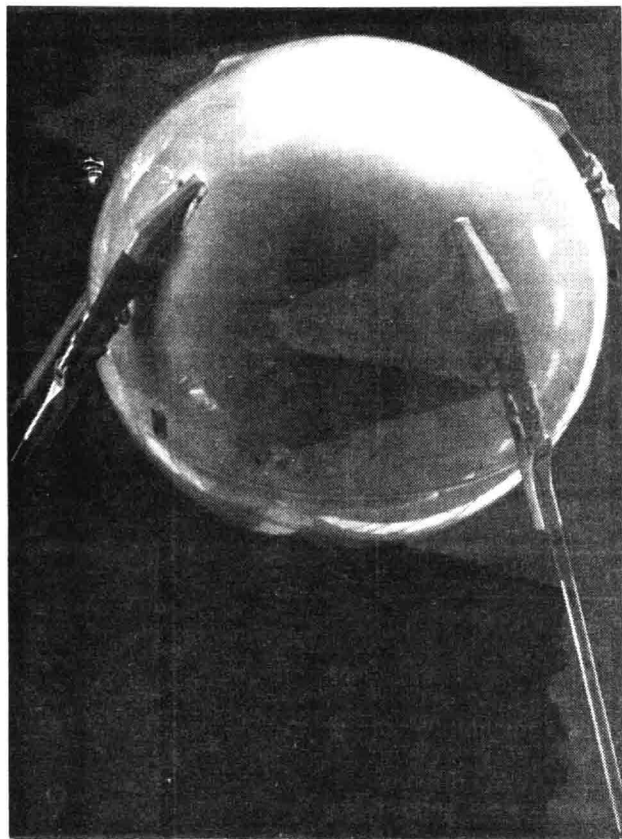
Contact: Dave Ranney, N0AXL (612) 571-7441

(continued on page 15)



HERE and THERE

This little ball: A wakeup call



This is a mockup of Sputnik 1, and the photo was taken at the Paris Air Show in 1975.

It was the definitive wake up call and it was the catalyst that started the space race in earnest. It went into orbit in 1957, and hams all over the U.S. (and likely the world) were being called by media, wanting to know if hams could hear it. Of course we could. If I remember correctly, it transmitted just 5 kHz off the frequency of one of the big WWV transmitters. Great idea; it was easy to find and recognize when in range.

That was when we watched the nightly news on TV in fascination as Vanguard after Vanguard rocket did some expensively odd things after being lighted. Some went horizontal; some did circles. The range safety officer very likely wore out his "destroy the damn thing before it hurts someone" button.

Things got better rapidly, with the indispensable help of Dr. Werner von Braun, who was the father of the U.S. space program. It is hard to believe that, when in 1961, President John F. Kennedy told the nation we must put a man on the moon before the end of the decade, we did, even after the tragic Apollo 1 launch pad fire which killed three astronauts and caused a long delay. We had Tranquility Base in operation in July, 1969.

Why the reminiscing? The recent November 3 hand-toss launch of a French Radio Club-built commemorative Sputnik. It was tossed into its own orbit during an EVA outside Mir. That tiny battery-powered bird beep-beeped its little heart out, with all of its 200 milliwatts causing more excitement among hams than I can recall since I became a ham in San Diego (actually, Pacific Beach), in 1958.

I heard the little bird on its November 3, 1997 launch date; weak signal, of course, but there it was, on

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A VOICE OF REASON, REALITY, AND APPRECIATION

NWS meteorologist speaks up for Amateur Radio and Skywarn public service

Last night I attended a La Crosse City Council Meeting with many of the local Amateur Radio operators. An alderman had proposed an ordinance to ban, at least temporarily, the installation of any new wireless communication towers within the city limits of La Crosse.

As it turns out, the alderman meant to restrict cellular phone towers but used too vague of terminology in his proposal.

After the council read letters from the Sheriff's office, the Red Cross, the local Emergency Manager, and heard arguments from several of the Amateur Radio operators, they agreed to reword the ordinance

and only concern themselves with cellular phone towers.

I spoke before the council in support of our local Amateur Radio operators and how important their services are to our mission. I also made sure the council knew that our office is technically within city limits and that we not only serve the city of La Crosse or La Crosse County, but 27 other counties.

T. Shea
WCM La Crosse
(via
Mike Schoenfuss, N9GHZ)

QCWA Chapter 174 holds annual meeting

By Wayne Johnson, K9MIF

On Saturday, October 4, 1997, Wisconsin Badger Chapter 174 of the Quarter Century Wireless Association held its annual meeting at the Blue Top Supper Club in Stevens Point. The following officers were elected: Mike Peters, W9CO, president; Al Mallek, K9WVM, vice-president; Wayne Johnson, K9MIF, secretary; Craig Carpenter, K9MHG, treasurer. Directors appointed were Lew Sherrar, K9JPS, Bob Baird, W9NN, John Feltz, W9JN, Gene Santoski, K9UTQ, and Mike Pagel, K9UW.

W9NN discussed an effort by a few people at the national level to change the by-laws in order to have people with less than 25 years into the QCWA. (Note: This was defeated at the National Convention in Kansas City October 11, 1997.) Our chapter voted overwhelmingly against the proposal, and W9RZW will carry this information to Chapter 55 at their upcoming meeting.

Other items discussed were the spring meeting and that an effort should be made by all members to recruit new members.

W9NN, K9WVM, W9JN and XYL Kathy, and K9MIF all attended the national convention October 11, 1997 in Kansas City.

It should be noted that the family style meal served by the Blue Top Supper Club was outstanding!



Officers at the October 4, 1997 QCWA Badger Chapter 174 meeting were: Seated - K9JPS, director; W9NN, director; and W9CO, president. Center row - K9UTQ, director, K9WVM, director, and W9JN, director. Back row - K9MIF, secretary; K9UW, director, and K9MHG, treasurer.

145.82 MHz, at 63 beeps a second. (Some confusion resulted during a conjunction with DOVE, which transmits on 145.825.) I listened in my car parked on a downtown Baraboo street with a dumpy Midland 13-510 and a 1/4 wave rear-mount antenna. I even called a stranger over to hear it, and he certainly must have thought I had tossed what I have left of my marbles.

For just a moment - only a moment - ham radio was fun again, for me, at least.

And, from the AMSAT reflector, this: "Hi everyone: Just heard the Sputnik 40 pass over Tecucigalpa 02:36 UTC with my TH27A. I've been trying for a while and finally got it. IT WAS GREAT." That came from HR1MWM. There have been hundreds like that.

A footnote: Sputnik 4 splatted on a Manitowoc street in the early 1960s. Policeman finds object. Policeman touches object. Policeman quickly discovers object very hot.

And, now the space race has ended in the best way possible: Cooperation between two former adversaries.

It's about time.

Thanks to NASA for the photo.

Jim Romelfanger, K9ZZ

AT&T funds Kentucky ham radio repeaters

There was a silver lining to the clouds that brought heavy flooding to Northern Kentucky earlier this year. Ham radio's role in providing emergency communication in the flooding's wake has resulted in a windfall for that region's hams -- courtesy of AT&T. Seventh District Emergency Coordinator John Meyers, N4GNL, of Covington, Kentucky, says AT&T has agreed to spend some \$100,000 to set up a VHF repeater, a UHF repeater, antennas, and a shack with air conditioning and heat at one of its cellular telephone sites. Other sites will be equipped as receive-only sites and tied back to the

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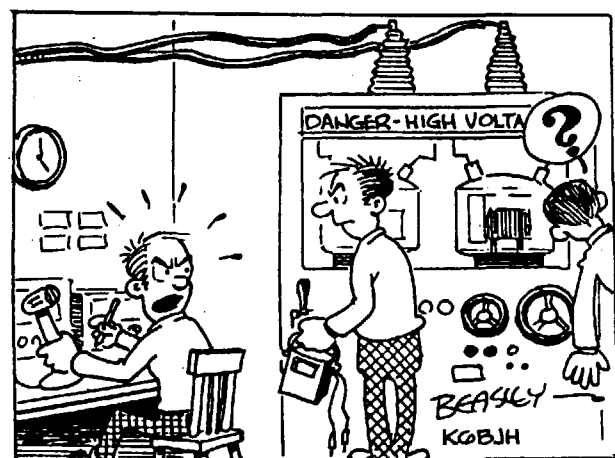
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On the Lighter Side

By Bob Beasley, K6BJH



repeater.

As part of the deal, the Northern Kentucky Amateur Radio Club agreed to cover the electricity and phone bills. Meyers says he's already gotten four Northern Kentucky counties (Campbell, Boon, Kenton and Pendleton) plus the City of Falmouth to pitch in for the utilities at the sites.

Meyers says ham radio was the only means of communication for the first four days of the floods. Many of the club's members remained on duty to help out during the flood recovery. Hams' efforts during the flooding attracted the attention and respect of local governmental officials and of AT&T, which saw the possibility of a mutually beneficial arrangement. AT&T had been hoping to gain access to several possible cellular telephone antenna sites that had been off-limits. With the ham equipment on board, however, the cellular sites gained emergency communication status -- just what was needed to get the moratorium lifted on their use by AT&T. "The marriage came together really good," Meyers said this week. "AT&T needed some sites, and hams needed the coverage."

In addition to the Kentucky repeater, AT&T also plans to set up a similar emergency system for hams in Southwestern Ohio, which also suffered from this year's flooding. Meyers says AT&T's total commitment is in the area of \$300,000. When it's all in place, Meyers says, a huge region in Northern Kentucky, Southwestern Ohio and Southern Indiana will be accessible using a 2W hand-held transceiver.

If all goes as planned, Meyers hopes to throw the switch on the first new repeater site in Edgewood, Kentucky, by year's end. Great Lakes Director George Race, WB8BGY, has been invited to take part.

The ARRL Letter, 11/15/97

Alabama hams get ham radio excluded from ordinance

Ham radio antennas have been specifically excluded from a recently passed Communication and Telecommunication Facilities ordinance in Dothan, Alabama.

Working with information provided by the League's Regulatory Information Branch, members of the ARRL-affiliated Wiregrass Amateur Radio Club turned out at the Planning and Zoning Board meeting in Dothan last month to ensure that the new ordinance did not adversely impact ham radio. Roy Dancy, N4AN, reports a dozen hams showed up at the meeting -- somewhat to the surprise of Board members.

Alabama Section Manager Tom Moore, KL7Q, congratulated the club members on their success.

The ARRL Letter, 11/15/97

News clippings needed

If you, your club, or other hams have received media coverage in print, I would appreciate very much receiving

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Winnebago County ARES Meets

By Dick Lemme, K9FA



The November 12 meeting of the ARES group was officially called to order by its organizer, Ann Frisch, N9HUM. Ms. Frisch thanked all 27 who were present for their interest. She introduced our guests: John Leekley, WB9SMM, Milwaukee, the ARES Section Emergency Coordinator, Wayne Pennings, WD9FLJ, East Central District EC, and Kathryn Nichols, Director of Red Cross, Oshkosh Chapter. The Wisconsin SM, Roy Pedersen, K9FHI, was unable to attend.

Mr. Leekley explained the history of the ARES organization and its structure and how it differs from RACES. He informed us that only 50 of the 72 WI Counties have ECs. He also informed us that Winnebago County has not had an EC of record since May of 1995. The SEC appoints County ECs. (The County EC in turn appoints Assistant ECs as many as he/she deems necessary).

Mr. Leekley recommended that this ARES group get involved with public service events, such as parade control, March of Dime walks, helping the Fox Valley ARES with EAA duties, and special events like Sawdust Days, etc. The idea is to let the public know that the ARES is actively involved in helping and building public relations.

Because of the vast technology now available, radio communications is not our only means of being helpful during a disaster, such as the train derailments at Weyauwega, and just recently at Appleton. Amateur Radio TV would have made a big difference in being the eyes, watching over the hot spots without endangering the lives of any public servant or volunteer. Wayne Pennings agreed as to the importance of such technology. Having been directly involved as one of the families who were moved to safety and being an ARES volunteer, he wants to be sure we are not underestimating the use of other radio communications such as packet radio, VHF, UHF and the HF Amateur Radio frequencies.

Mr. Leekley expressed the fact that VHF communications was still the most reliable at this time, even far exceeding car phones and all other links, especially if their links fail.

Mr. Leekley said that for now the most important thing to be done is to get the position of Winnebago County EC filled. He passed out applications to those interested in becoming the next EC. He stated the this was open to any amateur within Winnebago County and that women ARES members should also consider submitting applications.

Danny Lenz, KB9IME, submitted a paper he prepared to show how, if appointed EC, he would handle the reconstruction of our ARES group. John

mentioned that all applications would be considered.

Each person in attendance was given a chance to express themselves and present their ideas and comments. It was agreed by all that, in order to make this ARES a working organization, regular meetings should continue. The involvement of as many amateurs as possible is needed to keep the public and the ARES group members informed.

Kathryn Nichols, Director of our Red Cross, informed the ARES about the upcoming "Introduction to Disaster Services" being offered by the local Red Cross on Tuesday December 9, and just what members can expect to get from this 4 hour course. Those completing the course will earn a certificate of completion.

Bob Jones, KG9IA, was introduced by Ms Nichols, as a amateur as having just completed a more extensive course offered at the Red Cross. He gave a brief description of the training, and offered his help in any way possible to make this all successful.

It was expressed by one of those in attendance to remember the 3 words printed at top of your radio license, (Amateur Radio License) and not to lose sight of the fact that we are amateurs, and to act accordingly, as every position in the ARES is voluntary.

The Cleveland (Pauline WD9GRL/Bob WD9HID, from Neenah, offered to be the go- between with Neenah area Weather Observatory. A link between them and the equipment set up at the Com Center and spotters and stations in the far northern parts of the county is a must so improved coverage can be obtained both during actual storm spotting and practice sections. All part of Winnebago County should be fully covered.

Mr. Pennings assures us full cooperation from Outagamie County.

The need for net training sessions is very necessary, but not required, but each member should be encouraged to take their turn as net control. In the event of a real emergency it will give one a sharper sense of what is needed and just how to go about controlling the situation which has occurred.

Some ARES material was brought by Mr Leekley and it was suggested that a small library be set up with a librarian for ARES members to pick up read and return items. This was not acted on because of the late hour. Another meeting is needed to finalize all plans, but because of the upcoming holiday Season, no date or time was set. When one is, it will be announced on the Sunday Night ARES Net.

The final word at this meeting was from Ms. Nichols of the Red Cross, stressing the importance of the area amateurs' involvement, and recommending the training offered by them.

Our guests were properly thanked and the meeting of the Winnebago County ARES was adjourned at 8:05 pm.

ing two copies of each story you may have seen during the past two years. Examples are stories about public service communications, both regular and emergency (remember SkyWarn!), ARES and RACES activities, including drills, barriers to medical treatment not available in certain countries resulting in treatment in the U.S. in some countries being broken by the common bond of Amateur Radio, and so on. Other topics could be unusual operations which benefit school kids by encouraging learning about the sciences (such as Dream Flight Wausau), offshoots of the hobby which benefit the public (such as Morse 2000), and so on.

Letters to clubs or individuals from public officials in Wisconsin commending ham radio's work are also needed.

These items are needed as quickly as possible for use in seeking a change in a tower law in a major Wisconsin city.

More news will follow as things go along. For now, we need to gather this material.

Please address and snail mail them this way:

Jim Romelfanger, K9ZZ
Public Information Officer
Wisconsin Section ARRL
412 1/2 Ash Street
Baraboo, WI 53913-2501.

Your cooperation is much appreciated. Thanks in advance.

Jim Romelfanger, K9ZZ

WRC-97 wraps up in Geneva

The 1997 World Radiocommunication Conference concluded its talks in the early morning hours of November 21 in Geneva, Switzerland. Amateur Radio survived WRC-97 largely unscathed, but the stage has been set for renewed spectrum battles at WRC-99.

Please turn to page 7

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No. 49: Critical File Backups for Win95, Part 1

Ahhh, Windows 95. Ya can't live with it and ya can't live without it. Its a frustrating beast, and yet, beautiful at the same time. Some parts work wonderfully, like double clicking on the icon of a document you are working on and having it automatically load along with the word processor needed to modify it. And, some parts are terribly disconcerting, as when you get a message something like "Failure loading xxx.VXD, you must reinstall Windows" just when you were getting ready to do an important project. What to do? What to do? The answer, of course, lies with backups.

A complete tape restore or parallel port hard drive restore of your entire Windows 95 partition would provide a relatively painless way to get back where you started before the disaster struck. However, full backups take time and most of us do them only occasionally. Furthermore, Murphy's Law clearly states that a disaster will never occur immediately after completing a full backup. The Law goes on to state that calamity will always strike several weeks or months after the backup, insuring that you loose significant numbers of irreplaceable files. Well then, what to do? What to do?

Sometimes, you can fix the problem yourself, using some nice safety features built into Win95. For example, even when Win95 will not start at all, it may allow you to boot into it's "Safe Mode" to make adjustments. Want to see your options? For a complete list of them type WIN /? at a DOS prompt, provided you took my past advise in #39 (Feb 97, HOW TO OPEN AND SHUT THE WINDOWS IN 95) to have your machine boot into DOS rather than directly into Win95. Indeed, I saved myself the other night when Win95 failed to boot after installing a defective video driver for my Super VGA adapter card. That dreaded message telling me to reinstall Windows was the only response that Win95 would give me. However, I was able to boot Win95 in Safe Mode using the WIN /D:M command from the DOS command line. It was then short work to uninstall the defective driver and reinstall my old one. After that, everything worked perfectly - quite a relief! Later, I downloaded a non-defective driver from the manufacturer via the web, and it is happily working to give me a beautiful display even as I type these words.

This kind of scenario makes one a little paranoid. Indeed, I have talked to people who hesitate to experiment with even the simplest, most minor customization of the setup of their Win95 because they fear they will "damage" something and suffer dire consequences. On the other side, those who do customize the setup risk an occasional disaster. Not good. We should be able to "tweak" our machines constantly, so that they become tailored to our needs, and change with us as our needs change. And we should

be to do this with no fear of retribution. Ideally, if you did something dangerous during your customization, Windows should supply you with a cautionary message such as "You can't do that because if you do, I won't be able to start properly".

I'm one of those slightly paranoid people. While I do not hesitate to experiment and customize, I do want the security of a "back door" so that I can safely reverse any step I take that screws things up. To ease my insecurity, I have devised three batch files that I run at least once each week, and I always run them just before I begin to tweak my setup. Together, it takes only about a minute to run all three (actually they could easily be combined into a single batch file, but I sort of like the separation). The first backs up the all-important Win95 Registry. The second backs up other critical Win95 files, and the third makes copies of critical DOS files. I'll show you the first this month, and the other two will follow.

Here is MYREGBAK.BAT:

```
1 @echo off
2 rem MYREGBAK.BAT (Put the date you created this batch file in here)
3 echo Creating REGBAK.REG ... this will take a little time ...
4 regedit /e regbak.reg
5 echo The file REGBAK.REG has been created; it is now being moved.
6 copy regbak.reg e:\backups
7 copy myregbak.bat e:\backups
8 echo REGBAK.REG and this batch file have been copied to E:\BACKUPS.
9 echo All finished backing up the registry with MYREGBAK!
```

I have added line numbers just for reference; don't type them in when you create the file. 1. The @echo off keeps the screen clean - nothing is sent to the screen from then on (including the echo off command itself) unless it is preceded by the command echo. 2. Lines beginning with rem are just comments in the file, little reminders to yourself when reading the batch file. 3. This line is printed to the screen when the batch file is run. 4. This command tells the Registration Editor to make a copy of the current Registration file and to name the copy REGBAK.REG. 5. This line is printed to the screen when the batch file is run. 6. This copies the newly created file REGBAK.REG to the E: drive in the BACKUPS subdirectory. In your case, you may wish to move it somewhere else. For example, if you want to move the file to the C: directory in a subdirectory named SAFETY, then change this line to read: move regbak.reg c:\safety Just be sure you create the subdirectory in C: before you run the batch file the first time. 7. This line copies the batch file itself to the E: drive in the BACKUPS subdirectory. Again, if you use a different drive and subdirectory, be sure to substitute them here. 8 and 9. These just post a reminder on the screen of what has been done.

Now you have a complete copy of the current registry, which you can explore at will with a text editor. Be sure not to modify it, however. In the event the current registry becomes corrupt or changed in a way that causes Win95 to stop working, you can always copy this backup in place of the corrupt version.

Put the batch file in the root directory of your Win95 hard drive. To run it, simply type MYREGBAK at the DOS command prompt. The file is safe to run, since it does not modify the current Registry, but rather, makes a backup copy of it. Next month we'll explore the other two batch files. Happy computing!

Reprinted, by permission, from the ORC Newsletter, Ozaukee Radio Club, 101 E. Clay Street, Saukville, Wisconsin 53080-1903 (Skip Douglas, KA9DDN, Editor).

1997 National Boy Scout Jamboree

Continued from front page

The K2BSA demonstration station and Radio Merit Badge activities were staffed by 43 hams from all over the country and Australia!! Yes, Mark, VK6ZEO, from Perth, was on the staff this year. The Merit Badge staff consisted of 17 hams, three of which were hams from Wisconsin Rapids. They were part of the youth staff and each is 18 years old and an Eagle Scout from Troop 171 in which I have served as Scoutmaster for the past 12 years. They were Josh Henry (KB9JJG), Kevin Drewiske (N9ZQB), and Joel Lemke (N9XMO). Josh recently received a Quarter Century Wireless Association college scholarship of \$500. He is currently attending Wisconsin State University at Platteville. Kevin attends Milwaukee School of Engineering and Joel attends the University of Minnesota at Minneapolis. It goes without saying that I was instrumental

in their being a part of this event, to say nothing about getting them involved in ham radio in the first place.

At the radio merit badge, 580 scouts filled out the initial paper work - of these, 357 earned the badge for a completion rate of over 60%! This was a big increase over previous Jamborees. Bill Burns, WA6-QYR, headed up the Radio merit badge staff.

At the K2BSA demo station, over 400 signed the guest book. We had worked all states (WAS) by the fourth day. We also worked 64 countries. This was a lower country count from previous jamborees because of poor band conditions and a conscious decision to concentrate on providing the best possible demonstrations for the Scouts.

The highlight of the K2BSA operation was the contact with the Mir space station. Mike Foale, KB5UAC, was the operator on board. This was done at 4:30 in the

morning, and over 200 people were there to witness it. At mid-pass, someone pointed skyward and you could actually see the MIR high overhead in the darkness. What a thrill!

Another cool thing that we had this time was our very own "Jamboree Rover". This was a radio-controlled truck with an amateur television transmitter on board. Scouts steered the rover by watching on television monitors in the station tent. Takeoff time was at 2 PM each afternoon and there was often a line waiting to pilot the vehicle. One Scout was able to "orbit" the K2BSA site three times.

An ATV setup was used along with packet between the K2BSA station site and the Radio merit badge area to enable scouts to communicate visually as well as keyboard to keyboard. They had a great time with that!

I served on staff with three other guys as part of the traffic handling staff. I don't have a total tally on the number of messages we handled, but I do know it was a bunch. Many scouts, leaders and visitors

stopped by the station to originate messages to all parts of the country.

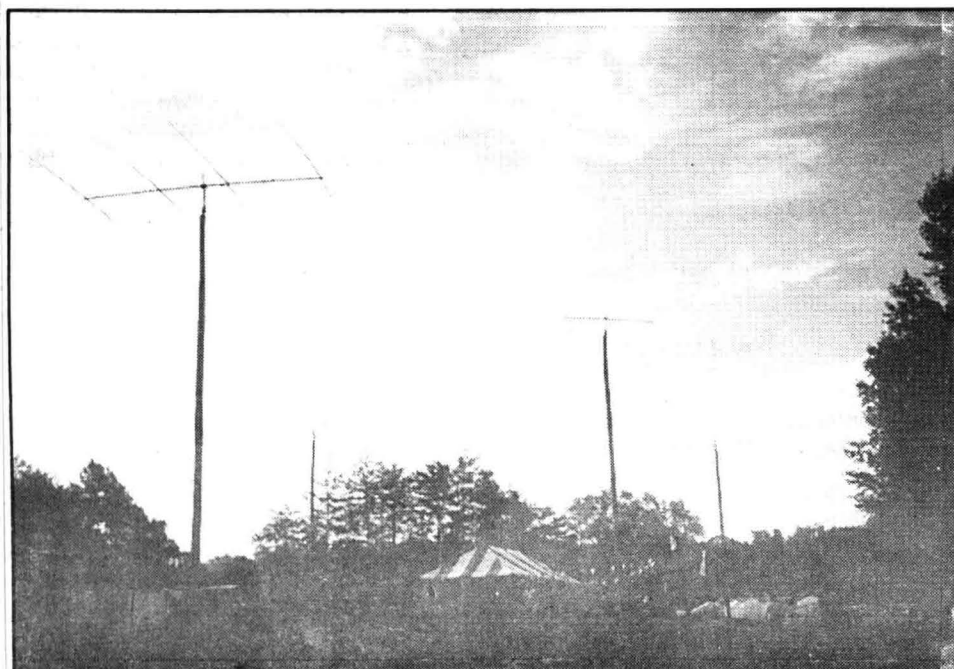
An on-site BBS was available to facilitate getting traffic to and from Jamboree participants.

Licensing classes were presented, and two exam opportunities were provided during the week. Nearly 180 people took tests and over 30 got their licenses.

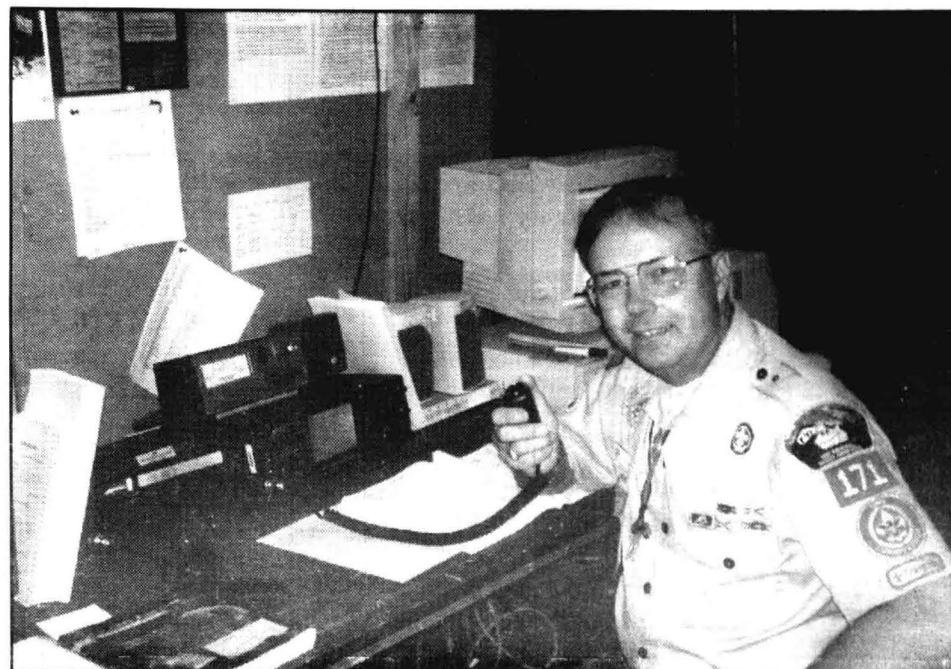
Thanks are due to a number of manufacturers and vendors that helped make the K2BSA station a success. Yaesu, Icom, Ten-Tec, MFJ, Cush-Craft, Belden, and PC Electronics all had equipment made available to us. The Computing Center in Ithaca, New York and HRO in Woodbridge, Virginia coordinated delivery of the equipment.

The U.S. Army also provided the use of two bucket trucks to facilitate installation of several HF directional antennas atop 60 foot cedar poles. We had beam for the 40 through 10 meter bands as well as 6, 2, and 70cm bands.

Please turn to page 9



The big signals from K2BSA/4 came from this antenna farm.



A big voice from K2BSA/4 came from this fellow Scoutmaster Josh Henry (KB9JJG).

Wisconsin Amateur Internet Addresses

CALL	NAME	CITY	E-MAIL/URL
KG9AD	Gary Luthardt	Marinette	drwho@cybrzn.com
W0AIH	Paul Bittner	Eau Claire	w0aih@eau.net
KC2AK	Stas Wnukowski	Madison	Stask2ak@aol.com
WA9AKV	Dick Schank	New Berlin	drs@mail.gmtcom.com
KG9AL	Mike Jesse	Shawano	kg9al@wi.frontiercomm.net
AF9B	Bill Fletcher	Madison	bflchte@mail.state.wi.us
AA9BB	Jim Wiskow	Arcadia	jcwiskow@win.bright.net
N9BGH	Steve Bukosky	Waukesha	sbukosky@execpc.com ourworld.compuserve.com/homepages/sbukosky/
AA9BJ	Tom Hetzel	Sheboygan	aa9bj@excel.net
KA9BLI	Jacob Derenne	Luxemburg	ka9bli@itil.com
KG9BO	Josh Housey	Sheboygan	lhousey@excel.net
K8BP	Clarke W. Cooper	Two Rivers	k8bp@juno.com
N9BQM	Joel Papke	Pittsville	n9bqm@juno.com
WA9BQW	Jule Kish	La Crosse	wa9bqw@juno.com
KB9BYP	Jeff Schmeichel	Appleton	kb9byp@execpc.com
N9CK	Steven J. Franzen	Madison	N9CK@inxpress.net
N9CLG	Ed Pliner	Pittsville	n9clg@aol.com
KF9CS	Mark Heimmermann (WAR Secretary)	Appleton	kf9cs@execpc.com www.execpc.com/~kf9cs
KG8CX	Ed Engelman	Menominee, MI	KG8CX@webtv.net
KA9D	William G. Menzel	Wisconsin Rapids	menzelw@wctc.net www.wctc.net/~menzelw
KB9DAC	Kevin King	Shawano	kb9dac@juno.com
K9DHR	Ade Van Der Burgt	Kaukauna	avdb@juno.com
N9DJY	Judy Papke	Pittsville	n9djy@juno.com
N9DMS	Dave Schaeffer	Madison	n9dms@globaldialog.com
N9DXZ	Dave Asplin	Marshfield	asplind@dgabby.mfldclin.edu
K9EF	Woody Minar	St. Croix Falls	WISBRED@aol.com
W9EH	Bob Burgermeister (ex WB9IY)	Kenosha	burgerb@execpc.com
N9EIL	Debra Kroll	Wisconsin Rapids	n9eil@tznnet.com
KB9ENO	Bill Niemuth (WAR Vice Chair.)	Hortonville	bnemuth@execpc.com
KA9EOX	Jack Tinsman	Shawano	ka9eox@juno.com
KB9EQI	Karl E. Simonson (VE Adams Co. ARC)	Necedah	kb9eqi@iname.com
WD9ESU	Larry Shields	Lodi	larrysh@itis.com
NX9F	Jim Ley	Menomonie	ley@uwstout.edu
K9FA	Dick Lemme (ex KB9FA)	Oshkosh	lemme@vbe.com
KB4FE	Gary Day	Rib Lake	ke4fe@newnorth.net
K9FHI	Roy Pedersen (Section Mgr. ARRL)	Juneau	k9fhi@tcccom.net
KA9FOX	Scott Neader	Onalaska	neader@centuryinter.net www.QTH.com/ka9fox
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N0GAF	M. L. "Pete" Deets	Madison	15.pd@madison-business.com
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Continued on page 8

HERE and THERE

Continued from page 5

The Little LEOs (non-voice, non-geostationary mobile satellite interests) -- which put a huge scare into the ham radio community in 1996 with their proposals to share ham radio VHF and UHF bands -- were unable to muster much support for new allocations at WRC-97. However, they came away with up to 3 MHz of additional spectrum on a regional basis, in the bands between 454 and 460 MHz. The Little LEOs also got a resolution calling for urgent studies in preparation for WRC-99 -- what some at the conference called "a hunting license" for additional VHF/UHF spectrum. A second issue that will recur at WRC-99 is finding a place in the 420-470 MHz frequency range for the Earth Exploration Satellite Service (EESS). Synthetic aperture radars (SARs) using frequencies in this range are said to be capable of penetrating the rain forest for mapping purposes.

Two significant ham radio-related issues failed to make the cut for consideration at WRC-99. For budgetary reasons, the WRC-97 delegates had to limit the WRC-99 agenda only to the most urgent issues. Pushed back to the tentative agenda for WRC-2001 were the possible realignment of the 40 meter band to resolve a conflict between hams and broadcasters in part of the band (along with possible expansion of broadcasting bands between 4 and 10 MHz), and Article S25 of the international radio regulations. Article S25 contains the international regulations specific to the Amateur and Amateur-Satellite Services, including the Morse code requirement for operation below 30 MHz.

WRC-97 delegates approved a resolution encouraging administrations to facilitate the use of ham radio and other "decentralized means of communications" for disaster mitigation and relief operations. This resolution eliminated the need for Resolution 640, which defined how certain ham bands could be used for international disaster communications by non-amateur stations, so Resolution 640 was suppressed.

WRC-97 delegates did agree to upgrade the Earth Exploration Satellite Service from secondary to primary at 1215 to 1300 MHz, which should have only minimal impact on amateur use of 1240-1300 MHz. The presence of EESS there also reduces the possibility that other, less-compatible services might later be introduced into this band.

In other allocations decisions, amateur satellite segments were not included among allocations for wind profiler radars. Except for a worldwide primary allocation at 1270 to 1295 MHz, the only specific allocations for wind profiler radars are in Region 1, and those are on a secondary basis. Region 2 administrations were urged to implement wind profilers in radiolocation bands at 440 to 450 MHz, 904 to 928 MHz (protecting the lower, weak-signal segment), 1270 to 1295 MHz (protecting amateur satellite and weak-signal), and 1300 to 1375 MHz. The delegates agreed that the bands 420 to 435 MHz or 438 to 440 MHz could be considered for use in situations where there was incompatibility between wind profiler radars and other radio applications at 440 to 450 MHz or 470 to 494 MHz (only in some Region 1 countries). In this case, too, the amateur-satellite segment is protected.

Several Region 1 (primarily European) countries deleted footnoted exceptions to the international table of allocations in the 1810 to 1830 kHz range, expanding the usability of 160 meters for ham radio. North Korea was persuaded to drop its bid for footnoted exceptions to the allocations table that could have affected some ham radio bands in that part of the world.

Amateur Radio was represented at WRC-97 by a multinational team of International Amateur Radio Union officials, including Secretary Larry Price, W4RA, Vice President Michael Owen, VK3KI, and Region 1 Vice Chairman Wojciech Nietyksza, SP5FM. They were assisted for a time by Tafa Diop, 6W1KI, and Eduardo Estrada, HC2EE, who are members of their respective regional executive committees. Numerous radio amateurs attended the conference in official capacities on behalf of their national administrations, including ARRL Technical Relations Manager Paul Rinaldo, W4RI, who served on the US delegation.

In all, 1801 delegates from 142 countries registered at the conference. Another 141 observers from regional and international organizations also attended.

The ARRL Letter, 11/21/97

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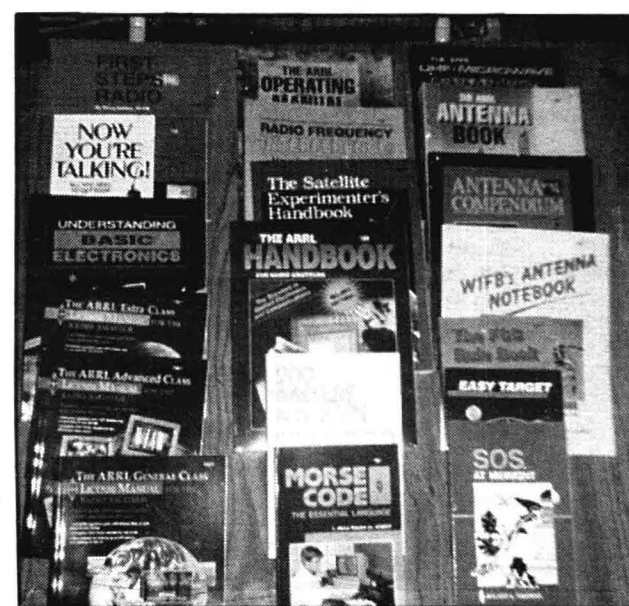
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South Milwaukee ARC makes major book donations to five area libraries



The South Milwaukee Amateur Radio Club has donated five complete sets of ARRL-published books to public libraries in Cudahy, Franklin, Oak Creek, South Milwaukee, and St. Francis.

The donation, at \$300 per set, totals \$1,500 worth of some of the best technical and radio and electronics-related materials.

The books in each set are:

- The Radio Amateur's Handbook
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- ARRL Antenna Book
- Antenna Compendium
- W1FB's Antenna Notebook
- UHF/Microwave Experimenter's Manual
- FCC Rule Book
- Understanding Basic Electronics
- General Class License Manual
- Advanced Class License Manual
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- Satellite Experimenter's Handbook
- 200 Meters and Down
- First Steps in Radio
- Radio Frequency Interference
- Morse Code: The Essential Language
- SOS at Midnight
- Easy Target

The South Milwaukee Amateur Radio Club is proud to promote Amateur Radio by donating these books to libraries in the areas where most of the club's members reside.

A presentation ceremony involving all five libraries was held at the Oak Creek Public Library on October 9, 1997.

Patrick R. Browne, Treasurer
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Wisconsin Emergency Management EOC	Madison	RACES@DMA.STATE.WI.US
Yellow Thunder ARC	Baraboo	www.thelox.com/~sschulze

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Complete listing

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This list is also available at www.execpc.com/~wa9pov/bsslist.html.

National Jamboree 1998

Continued from page 6

Kendecom provided a two-meter repeater which got a lot of use, not only by the staff, but by the 400+ hams who were on-site at the Jamboree. A daily net at 7 PM was held to keep people informed and to get messages to the many sub-camps. We had as many as 80 check-ins at times. The repeater was monitored 24 hours a day by the staff. A number of emergencies were reported during the week, from bicycle accidents, heat prostration and sprains to missing Scouts and lightning storms. The K2BSA operators handled each situation very professionally. We also had a hi-tech weather station next door that was manned by the Virginia National Guard and they kept us up to date on developing weather situations which we, in turn, passed on to those monitoring the repeater.

The ARRL donated various publications, maps and flyers. Larry Wolfgang, WR1B, Senior Assistant Technical Editor of ARRL was also on our staff.

All-in-all, it was a terrific experience for all those involved. This was my third Jamboree as part of the K2BSA staff. I encourage you to consider being on staff at the 2001 Jamboree. If interested, let me know and I will put you in touch with the right people at Boy Scout headquarters in Texas. Believe me, it is an experience you will never ever forget!



The writer, Gene Santoski, K9UTQ, general all-around good Scout and ham, points out his QSL card in the big collection at K2BSA/4.

Photo by someone else

Hams build UHF backbone emergency communications network

Len Kreyer (N9QIP) and Emil Devic (N9-FBF), with the help of other hams, have built an UHF backbone network. This network will provide UHF voice radio coverage for a large portion of southern Wisconsin.



The network has repeaters at Baraboo, Fort Atkinson, Hollandale, Tomah, and Allenton at the present time with the hope for future expansion. The network is financed and maintained entirely by hams as a public service to the people of Wisconsin.

During emergencies, this network will provide a valuable backup to normal government communication resources.

Mack Brophy, N9NTB

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As of October 17, 1997, Amateur Television Quarterly has a new publisher, Harlan Technologies, owned by Gene (WB9MMM) and Shari (KB9SH), of Rockford, Illinois.

ATVQ was previously published by Henry Ruh, KB9FO, of Crown Point, Indiana. ATVQ has been published since 1988.

Harlan Technologies previously started and published CyberHam Magazine until July, 1997, when it merged with SKIP Magazine to become SKIP/CyberHam Magazine.

The new publishers of ATVQ are always looking for new writers. If anyone is interested in writing about the following topics, let them know by mail or email: ATV activity on earth and in space; public service ATV activity, slow scan television; build-it projects; first-hand accounts of ATV activities; news, articles, and features; insights from the experts, new product reviews, technical info, and more.

Subscription rates are \$18 a year in the U.S., \$20 a year in Canada, and \$26 a year elsewhere (all in U.S. dollars).

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MEETING MINUTES NOVEMBER 10, 1997

The meeting was called to order by Vice President Ken Kuchar, N9WHR, at 7:30 P.M. The following members in attendance identified themselves.

Ken, N9WHR, President
Dave, AA9HL, Treasurer
Lee, N9VNU, Activities
Mary, N9ZWE, Secretary
Bob, W9EH
Bob J., W0WLN
Bruce, KB9QZR
Cheryl, WS9P
Dennis, K9DAD
Gene, WB9ZKY
Steve, K9ZL
Clarence, WS0C
Alan, N9ZWJ
Harold, KB9LXM
Paul, N9RGW
Peter, WA9KFL
Rees, K9UUT
Jim, W9LXY
Greg, KB9RMA
Larry, WA9JMO
Don, KB9HAM
Brian, KB9QNL
Chuck, KB9JIH
Spence, W9LDH

Treasurer Dave, AA9HL, gave his report and it was accepted as read. Secretary Mary, N9ZWE, gave her report. She received a phone call from Sue Douglas, the daughter of a Silent Key, Elton Miotel, WB9BBG. She was responding to the history request which had been published in the *Racine Journal Times* earlier in the year. She has some old photos of club activities and will get them reproduced for our history.

December 8 is the club Christmas Pizza Party, which will be held at 7:30 p.m. at Buona Vita Pizzeria Restaurant at 3701 Durand Ave., courtesy of the Megacycle Club. Donations will be accepted. It is free for paid members and their guests. (A sign-up sheet was passed around the room).

We are still missing Field Day logs pre-1988 and 1991, 1996, 1997 and any other pictures, documents, etc. for the club history.

Membership applications will be mailed out in December. The membership year runs from January 1-December 31. Existing members are responsible for membership dues in January even if they just paid the 1997 dues. (New members who joined the latter part of the year will be considered paid for 1998).

Mail was received from *Radio Amateur Call Book* and Wustum Museum. Wustum Museum is offering their facilities for meetings and long as you participate in one of their events.

The Amateur Radio and Computer Show fliers were on the table for anyone who wants them.

Bob, W0WLN, moved that the dues for 1998 remain the same as 1997. Bob, W9EH, questioned what the dues are. They are \$7.00 without *Badger Smoke Signals* and \$16.00 with the subscription. He questioned what benefits are available for these dues, other than the December Christmas Party. Ken, N9WHR, commented that they support the club and the good of the community and Lee, N9VNU, stated that they support the club's communication room. The dues had been \$5.00 since 1948, but went to the present rate in 1996. A vote was held and rejected, to raise the dues.

Chuck, KB9JIH, announced that he successfully read the *Badger Smoke Signals* cover to cover last month, and feels our club's notes are the best. Pete, WA9KEI, announced that *Ham Radio* and

More is off the air. Their last program was October 26 because they did not receive enough financial support.

Bob, W9EH, said that the FCC has come out with a new form 610 that will be in use as of January 1. All previous forms will not be allowed. As of January 1, 1998 the new rules for safety go into effect and there is an affidavit on the new form that you have read and comply with the new rules. Unfortunately, the publications that are referenced as far as reading rules are not finished yet. Even so, the rules still stand and the new form must be used after January 1.

He also read that anyone who has applied for a vanity call sign in the last couple months, has found that there is a requirement that you provide them with a taxpayer ID number, which is your Social Security Number. There is a new provision in their internal regulations, that says that they can deny a license to anyone who has outstanding debts with the federal government. This has just come out, so the changes will be upcoming on future 610 forms. You can look forward to more meddling in your private affairs.

Mary, N9ZWE, requested that, when you fill the attendance roster, please do not sign in someone's else's name who is not physically present. Only members in attendance are to sign the roster.

Bob, W9EH, announced that the scanner bill has made it out of committee and will be going to the House for voting. It has been dramatically changed from its original form. The author of the bill had been bombarded by all sorts of special interest groups, such as the volunteer fire departments in America who said they can't do their job if this bill goes into effect. The only things left protected are cell phones and cordless phones.

Mary, N9ZWE, questioned which bill this was. There were two bills submitted. One was HR 2369 and HR 1964. Bob stated that HR 2369 was out of committee and doesn't know what is happening with HR 1964.

V.P. Kenny, N9WHR, asked if there is a report on A.R.L.O.W. No report was given.

Larry, WA9JMO, announced that the club is committed to sponsoring two ham classes per year for the next four years. He is looking for instructors. The class will begin on a Sunday about the middle of January 1998. It will run for 12 weeks. He will set the classes up and arrange for publicity. A host will also be needed for the first class. He will need to make arrangements with the Red Cross. Spence, W9LDH, has already volunteered.

Chuck, KB9JIH, began the election of officers. Al, N9ZWJ, recorded the nominees on the board. The following people were nominated and ran unopposed. The 1998 Officers are:

President: Rees Roberts, K9UUT
Vice President: Bob Burgermeister, W9EH
Treasurer: Dave Geschke, AA9HL
Secretary: Mary Urban, N9ZWE, and
Activities Director: Harold Petersen, KB9LXM.

The meeting was closed at 7:50 p.m.

The winner of the door prize was Kenny N9WHR. It was a Radio Shack multi-tester.

The team of Dennis Demet, K9DAD, was the first place winner of the November 7 Fox Hunt. The last scheduled hunt of the year will be December 5.

HISTORY: October 4, 1952 - The Racine Megacycle Club's Amateur Radio Emergency Corps - known as the AREC - set up and tested a city-wide emergency radio communications plan Sunday. George Porter coordinated the event. A

Riverland Amateur Radio Club



Dan Abts, N9PZC
Secretary

Club mail address: P. O. Box 621
Onalaska WI 54650



<http://www.lse.fullfeed.com/~rarc/counties.html>

MEETING MINUTES November 4, 1997

The November Meeting of the RARC was called to order at 7:35 p.m. by Bob, N9LZK, due to the absence of President Duane, W9HWQ.

The minutes of the October meeting were accepted as read by Dick, K0JYB, due to the absence of Dan, N9PZC.

Roger, KA9BKK, gave the treasurer's report. The report was accepted as read.

Sunday night net: Pete, N9XVG, reported that the net is doing fine, having had eighteen checkins last Sunday night Nov. 2, 1997.

440 Repeater: The repeater is still in for repair.

97 Repeater: The repeater is working fine, although there was a problem early in October, most likely caused by propagation.

ARES: Kent, W9LZQ, Pete, N9XVG, and Bob, N9LZK, attended a meeting at the Franciscan-Skemp Health Care Center for an Emergency Service's Training Exercise.

Houston County MN Event: Red, W00W, reported on Minnesota Houston County event which took place on October 25, 1997, thanking the people from the RARC that participated in the event. The exercise involved 120 people. The MN and La Crosse, WI CAP, including 14 cadets, were in attendance. The H.C. Sheriff's posse and a boat patrol were also present. The Salvation Army provided a very fine lunch. The Red Cross was also involved in the exercise.

OLD BUSINESS

Roger, KA9BKK, reported on a VEC exam which was held on Oct. 23. There was one upgrade, and two new hams. Two out of three passed the exams. KB9RPM, John Kjos, was introduced to the club as the new Ham.

A VEC exam will be held at the Onalaska Public Library on Saturday, November 22, at 9 a.m.

Silent Key: A moment of silence was held for A.M. Hogden, W9FIO.

EXECUTIVE BOARD MEETING

A discussion was held regarding the RARC dues for 1998. Suggestions were made such as a \$2 dues increase, and/or dropping the BSSS. (BSSS editor's note: Interestingly, RARC was the first club to become a participating club in BSSS. If there are problems, we want to know what they might be. Thanks. K9ZZ). An equipment insurance policy was also discussed which would cover the Club equipment and the trailer.

ANNUAL PARTY: Dick, K0JYB, announced the closing of Nob Hill restaurant and it was agreed that Moxie's would be OK for the party.

Many members were absent as they were attending a meeting regarding an antenna moratorium for the city of La Crosse.

Meeting adjourned at 8:30 p.m.

Respectfully submitted:
Dick, K0JYB

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Acting Secretary
213 N. Jefferson • Cuba City WI 53807-1558

WISCONSIN NETS

Net	WNA	Freq.	UTC	CST	Manager
BWN	Yes	3985	1200	0600	W9RCW
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	N9MXW
WSSN	Yes	3645	0030	1830	N9BCL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9UW
NWTN	Yes	34/94	0130	1830	NS9Q

(Rhinelander area)

RCRA	No	01/61 (Mondays CST)	0030 (Menomonie Area)	1830	KA9OMC
Gr. Bay	No	72/12 (Green Bay Area)	0245	2045	WB9NRK
ARES	No	4.65/5.25 (South East/South Central Wisconsin)	0200	2000	
RACES	No	3993.5 (LSB Sunday)	1400	0800	WA9OAY

Wisconsin NTS Traffic Report October 1997

Check-ins and traffic were both up a little in October. The shorter days and cooler weather have something to do with that, I suppose. With the seven active nets

control station was set up at an undisclosed location to direct all operations, and an alternate control station was set up at another undisclosed location to take over if necessary.

reporting (NTWN is suspended until Nov. 1st), 3396 stations passed 1953 pieces of traffic. BWN/1656, BEN/65, WSBN/91, WNN/11, WSSN/19, WNN-E/67, and WIN-L/43.

Six stations reported traffic totals in excess of 100 for September, four of whom made Brass Pounders League. The stations are: K9JPS/937 (BPL), W9RCW/725 (BPL), WB9JSW/718 (BPL), W9IHW/657 (BPL), K9FHI/173, and N9KHD/122.

I mail my reports to League Headquar-

Continued on page 11

Wisconsin Nets Association Ltd.

Continued from page 10

ters on the 7th of the month. That makes the deadline for reports the 6th. I can accept reports until I start printing them up for mailing. If you can catch me on the BWN on the morning of the 7th, all would be well.

Hale Blakely, W9CBE, Asst. STM will also accept reports and forward them to me. Hale covers most of the CW and

SSB nets so there is someone on almost every net to take reports.

Reports can also be sent VIA packet or e-mail.

My packet address is:
KA9KLZ@KC9KQ.WI.USA.NOAM
My e-mail address is:
aevans@mhtc.net

Thanks to all stations who participate in the Wisconsin nets. You are the nets and Wisconsin nets are the best. 73.

Submitted by:
Arthur A. Evans, KA9KLZ
Wisconsin Section Traffic Manager
November 7, 1997



Notes From the Section Manager

Roy Pedersen, K9FHI • 510 Park Street
Juneau, WI 53039



Hi, everyone. Just a few notes from the desk of the SM.

Our nets need more participation and net controls; don't be shy- it's a lot of fun and you get to know many "hams" by voice or call. Let the net manager know you would like to be a net control station. Everyone will help you get started. Besides, it's a public service

The following is an article from D9RN.

What are we going to do about the NTS Traffic Handlers of the future? We are very lucky here in the Ninth Region to have a growing group of individuals dedicated to the unselfish work of "getting out the word". Unfortunately, not many really understand the vital role you are playing.

We experienced some of these problems during the flood of "97". So many in the amateur community, not only the new hams, but also some of the older amateurs lack the necessary skill of message handling needed to conduct an emergency situation. There are still those who would think that they are only here to pass anniversary and birthday greetings, etc. They cannot foresee the event of a major catastrophe and the need to have a "well oiled machine" in place prepared to handle the situation. Now that we know the question,

what is the answer?

I asked this of Bill Williamson, N4PEK. Bill, who unfortunately for all of us became a Silent Key two short weeks after our visit, said that what is needed is EDUCATION. We need to get more people involved, train them in message handling, and educate both the public and the amateur radio community at large as to the purpose of NTS. There will come a time when this help will be vitally needed and it is my deep concern that we may "be weighed in the balance and found wanting".

Each and every group, such as our local radio clubs, ARES, RACES, and whether it be one amateur helping another will solve this problem by regularly holding classes. Rick Palm and Steve Ewald at ARRL headquarters are ready, willing and able to assist with any materials needed for such a task. You are the backbone of the system, and I know we can count on you good people to lead the way.

(D9RN Newsletter, Dave, KD4NYC)

Credit goes to KD4NYC for this article, which I thought was excellent.

73, Roy, K9FHI

Quarter Century Wireless Association
Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Radne, WI 53402



Traveling still appears to be occupying the agendas of many Chapter members.

Ed, W9NVK, and Marie Konicek spent the end of October in Branson, MO enjoying the shows and other amenities offered. Ed said they had a wonderful time. Larry, WA9JMO, and Wendy, N9PAC, McCalvy relaxed at a time share condo at Sanibel Island, FL during the first seven days of November. A welcome back party held their first evening on the island saw five Racine Kringles and a hoard of other food disappear as the group tried to catch up on 51 weeks' worth of activities since the gang had last been together. It was suggested that perhaps ten kringles might be in order for November of 1998.

Bob Jensen, W0WLN, has retired from three jobs associated with condominium living. Bob has served the condo association as office manager, newsletter editor and chair of the building and grounds committee. The pay for service was intrinsic and I'm sure will be sorriy missed by the association dwellers. When Bob takes a task to heart, it is completed to perfection. Bob said he needed the time normally spent on those projects for something more important -- hamming.

Our Christmas party is scheduled for Sunday, December 12th at the Meadows Restaurant in Franksville beginning at 1 p.m. Our Secretary will send out reminder cards. Each attendee is asked to bring a gift (not to exceed \$5) for exchange. Please wrap the lady's gifts in green paper and the men's gifts in red.

We have had, at past Christmas gathering, a cake to celebrate the occasion. The procurer of this delicate morsel at

previous functions has been Bill Komistra, W9OVZ. Hopefully Bill can again bail us out. We may have to send the club en masse to his QTH with our plea. Bill has been, so I've been told, devoting all his time to repairing and painting his house. If he hasn't finished by the 12th, we will have to convince him that a break is in order. We require him to be present at the Christmas bash.

In late February or early March of 1998 the Amateur Radio Clubs of Southeastern Wisconsin will host its annual Ham Banquet and Awards program. As part of that program, Chapter 162 of the Quarter Century Wireless Association will present its coveted "Olie Fox, K9AKG Award of Excellences". The award is open to any licensed Amateur Radio Operator living in the Greater Southeastern Wisconsin area -- this includes Northeastern Illinois, that had been first licensed at least 25 years prior to receiving the award. The nominee should have contributed significantly to Amateur Radio and to his or her community. Submit the name of your candidate, ham call and your reasons for the selection in writing to the Olie Fox committee. Please be as detailed as you can be in setting down the specifics leading up to your nomination(s). Send your written nominations to the Olie Fox selection committee. (Bob Jensen, W0WLN, 5616 Cambridge Lane #6, Racine, WI 53406, or Larry McCalvy, WA9JMO, 5400 Six Mile Road, Racine, WI 53402.) President Spencer Clope, W9LDH, said as past recipients of the award, we would be the committee. When the prez speaks....

73, Larry McCalvy, WA9JMO

Mancorad Radio Club

Dave Shemchak, KB9KQA,
Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

MEETING MINUTES
November 12, 1997

Janice, N9IQZ, brought the November meeting of the ManCoRad Amateur Radio Club to order at 1938 hours.

We started the meeting off by introducing everybody present. Apparently because of the elections we had a slightly larger than normal turn-out.

A quick correction, the Christmas party will be held on DECEMBER 12th, not December 13th as stated previously!! (My fingers never did like the number row on the keyboard!) Other than that mistake, the October Minutes as published in the "Badger State Smoke Signals" were accepted. Motion made by Bob, KN9INK, and seconded by Ken, K9HAG.

Red, N9GHE, moved that the club treasury report, as read by Glenn, AA9MT, be accepted. Ron, WS9X, seconded the motion.

Your club membership dues are due NOW! Thirty dollars for a family membership, twenty dollars for a single membership, and ten dollars for students. Checks can be made payable to ManCoRad and sent to:

ManCoRad ARC
P.O. Box 204
Manitowoc, WI 54221-0204

I will be holding Novice/Tech licensing classes in the first part of 1998. Start telling your friends and family about Amateur Radio and what fun it is! (I would really like more than one student this year!) I would also like a couple of you to volunteer to help out at classes. Let's start thinking about this now so we can make this year's class a success!

A couple of final notes. The Christmas Party will be held on December 12th at Cedar Ridge (I43 and Hwy 147; exit 164). Cocktails at 5:30 p.m., chicken and BBQ ribs at 6:30 p.m. Cost: \$9.00 per person. Contact Glenn, AA9MT, SOON to reserve your tickets!

Another thing to keep in mind, Manitowoc County is considering an antenna ordinance. An article published in the "Herald-Times-Reporter" suggests that the ordinance will cover commercial towers and makes no mention of the impact on hams, CB'ers and TV antenna owners. HOWEVER, as we are aware, municipalities have a tendency to ignore federal law (concerning antennas) and enact legislation as they see fit. This would be a good time to become acquainted with your city and county representatives and remind them that federal law governs Amateur Radio antenna installation.

A motion to close the November meeting of the ManCoRad Amateur Radio Club was made by Lyle, WB9VTM, and seconded by Patti, KB9NNX. The meeting was adjourned at 2034 hours.

Submitted for approval
David P. Shemchak, KB9KQA, Secretary

Meeting Attendance

Please include the fact that the check is for dues. You can always contact Glenn, AA9MT, directly to handle payment of dues.

This was the meeting where we elected our new club officers. The new officers, who take over starting in December, are as follows:

President: Roger Beyer, W9NPX
Vice President: Fred Neuenfeldt, W6BSF
Treasurer: Glenn DeBaker, AA9MT
Secretary: Mary Langer, KB9GOY
Board Members:
Dave Shemchak, KB9KQA
Denise Beyer, N4WGK
Paul Welnicke, N9QFX
Janice Schaden, N9IQZ
(Janice automatically becomes a board member as outgoing President)

Thanks to the outgoing officers for a job well done and thanks to the new officers for volunteering their time!

Bill, K9DUX, has volunteered to be net control for the Sunday morning 2M net. I'm sure that Bill will, from time to time, need a replacement so, if you are able to help out, please contact him to offer your services! Ron, WS9X, will continue to be net control for the Thursday evening 2M net. Again, if you are available to fill in for Ron, let him know!

Glenn	AA9MT
Janice	N9IQZ
Dave	KB9KQA
Ron	WS9X
Patti	KB9NNX
Don	KB9NTL
Dan	N9FVZ
Bill	N9XEZ
Red	N9GHE
Clancy	K9WIX
Ken	K9HAG
Mary	KB9GOY
Conrad	WD9ERM
Oran	N9VIA
Lyle	WB9VTM
Bob	KB9INK
Tom	KB9GRC
Denise	N4WGK
Roger	W9NPX
Fred	W6BSF
Bill	K9DUX
Paul	N9QFX
Gene	KB9KXE
Larry	K9LWI
Steve	Guest

FCC SEQUENTIAL CALLSIGN UPDATE

The following is a list of FCC sequentially assigned call signs issued as of November 3, 1997. Note that the last available Group C (1x3) call sign, N3ZZZ, has been issued in District 3. Group D (2x3) call signs now will be issued to Tech Plus, Technician, General, and Novice licensees in District 3. The FCC has almost exhausted its supply of Group C call signs in District 1.

Dist	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AB0GP	KI0KL	++	KC0CDV
1	AA1SW	KE1IS	N1ZUQ	KB1CFM
2	AB2EL	KG2MZ	++	KC2COJ
3	AA3QK	KF3AN	N3ZZZ	KB3BVZ
4	AF4GG	KU4LU	++	KF4UNL
5	AC5OD	KM5MS	++	KD5COB
6	AD6DQ	KQ6SX	++	KF6OFV
7	AB7WT	KK7KJ	++	KC7ZNS
8	AB8BL	KI8EH	++	KC8ISH
9	AA9VC	KG9LT	++	KB9RPV
N Mariana Is	NH0B	AH0AY	KH0GT	WH0ABI
Guam	++	AH2DF	KH2SQ	WH2ANV
Hawaii	KH7J	AH6PD	KH7GZ	WH6DEJ
American Samoa	AH8P	AH8AH	KH8DL	WH8ABF
Alaska	AL0H	AL7QV	KL0KR	WL7CUN
Virgin Islands	++	KP2CM	NP2JV	WP2AIJ
Puerto Rico	NP3Q	KP3BC	NP3RK	WP4NNM

+ + All call signs in this group have been issued in this district.

Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings, RCRA sponsors and guests. The following were in attendance at the October social hour:

N9LRV, Gerald Leff
N9PPE, Jeff Cole
KB9NIR, Scott Kilde
KC9CU, Arlene, and OM Dave Kraft
W9AVM, Jim Humphrey
KE9CS, Ken Dicks
KA9OMC, Steve Hart
N9LRV, Gerald Leff,

reported that he had been to some additional Red Cross training workshops since the Governor's Conference on Emergency Preparedness. Some topics we covered were how packet radio could be applied to disaster communications, town chairman's responsibilities during disasters, and a renewed request to help the Red Cross in the event of a crisis.

Out thanks to Gerald for considering our involvement. Just imagine what our hobby would be like if no one ever asked for our help.

A new product catalog was passed around that includes many amateur and electronic kits. For a copy, call Tech America at (800) 613-7080.

WA9CCB, Louis Forster, reminds us "It's what you learn after you know it all."

NX9F, Jim Ley, reports that there were three people for the recent exams at Menomonie. Results were one new amateur, KB9RQE, Daniel Holmen, at Colfax, and one went from Technician to Advanced. Dan was elmered by his uncle in Duluth, and will probably be able to contact him through the Holcombe link.

Batteries Plus has opened a new store in Eau Claire and is a ready source for replacement and rebuild of your HT packs. Find BP at 3115 East Hamilton Avenue, south of London Square Mall across from Menard's.

N0PDD, Bob Stark, at Winona, reports working an aeronautical mobile 2000 feet above Kansas City.

KB9MMR, Bill Kramer, is back at school at Stout, and continues to juggle work and studies. Bill has moved his QTH in south Menomonie, and is in the process of erecting new antennas.

N9FVA, Chuck Thomas, attended the festival at Minot, North Dakota, and has heard enough accordion music for a while.

WB9YMB, Jim Hilborn, at Menomonie, has decided to spend more time with his computer, and wishes to vacate the directorship he has held since 1991. Under Jim's watch, the repeater has added remote receive operation, phone patching, expanded sponsorship by a factor of five, added emergency backup and addressed expanding liability issues, as well as picking up our utility expenses. Out thanks to Jim also for his generosity and wish him well as he explores even more hobbies.

Please make welcome our new director, NQ9X, Ed Van Sickle, from Whitehall. Ed has been a long-time sponsor of RCRA, and can usually be found on the repeater after 10 a.m. daily. Besides being active, Ed is current on equipment (computer and amateur) and is ARRL Emergency Coordinator for Trempealeau county. Thanks for accepting our challenge, Ed.

Dues for 1998 are now due. Support for the repeater is \$15, or \$20 for multiple amateurs in the same household. If you wish to receive a copy of *Smoke Signals*, add \$10. BSSS renewals through RCRA are due now to avoid missing the January issue. Mail subscriptions and dues to KA9OMC, Steve Hart, E616 810th Avenue, Knapp WI 54749.

A merry and happy holiday to all.

□

OFFICIAL PUBLICATION OF CENTRAL WISCONSIN RADIO AMATEURS, LTD.

At University of Wisconsin, Stevens Point



WB9QFW 2-Meter Repeater 146.07-.67 and Club Station

249 Georgia Street North • Stevens Point WI 54481-1040

NOVEMBER MEETING MINUTES

President Mike Pagel called the meeting to order Nov 12 at 7:30 p.m.

The minutes of the October meeting as well as those of the September meeting were approved as recorded by secretary Al Mallek, N9WBS. A letter from Sandy Curtis, Portage County Emergency Director, commending the club on its participation in Operation Clean Sweep 1997 was read by Al Mallek. She writes that our involvement was extremely helpful in maintaining adequate communications, and is looking forward to working with us in the future.

In the absence of Joe Larson, N9JW, who is teaching a Tech class, Mike Pagel, K9UW, presented the financial report, which was approved.

Contrary to some complaints about the performance of repeater W9NN, Robert Baird, W9NN, reports there is no apparent continuing malfunction; there is sporadic interference and noise however, and he will work to correct the problem.

Jim Tuszka, N9MEB, and Glen Haroldson, N5IIA, have contributed their time and resources to establish a link between the club's other repeater (WB9QFW - 146.67) and a repeater in Iola, Wisconsin that is owned by Glen. The N5IIA repeater is on 444.900 MHz and covers virtually all of Waupaca County and a sizable area to the east and southeast of Waupaca County, including the Oshkosh area and most of the Fox Valley. Any user of the N5IIA repeater will be heard on the WB9QFW system, and any user of the WB9QFW system will be heard on the N5IIA repeater. A ham in Stevens Point using the WB9QFW repeater will be able to QSO directly with someone in Fremont who is using the N5IIA repeater. The link is transparent to the users. A touchtone command does exist to activate and deactivate the link, so this setup can be shut down during the Special Olympics, or on other occasions when the link is not desirable. This command sequence will appear on the upcoming list of repeater user commands.

The only cost for this new service is for a pair of crystals and a diplexer, both expenses previously approved by the club. Fortunately, WB9QFW already had a dual band antenna installed, so that expense was avoided. Users of both systems have had their effective coverage doubled for less than one hundred dollars, thanks to Glen's vision, donated radio, and many hours of volunteer effort from both Glen and Jim.

The banquet committee, Al Mallek, K9WVM, and Wayne Johnson, K9MIF, presented us with locations, prices and menus. The banquet will be held January 14, 1998 at the Sky Club, Plover WI. We will begin with happy hour from 5:00 - 6:30 and dinner will be served at 6:30. You will order from a selection of eight items on the menu, and there will be vegetarian fare available. Non-smoking dining room.

This past summer's swapfest was

discussed and it was concluded that we need more members to contribute their time if we are to remain successful. With next year's swapfest promising to be bigger, there definitely will be a need for more help.

Kudos this month to:

• John Feltz, W9JN, for his efforts at Field Day '97.

• To Robert Baird, W9NN, for his article in the local newspaper and the *QCWA Journal*.

• Joe Larson, N9JN, for his contributions to Special Olympics: his story in *BSSS* will appear in the December issue of *QST*.

• To Mary Eiden for serving as club president the past two years.

• And a warm welcome to Kathy Mallon, KB9ROJ, new member.

Jerry Fadness, W9GF, reported on the recent disaster simulation and also presented an emergency service plan. This plan defines the purpose and duties of Amateur Radio operators serving in an emergency situation.

Robert Baird, W9NN, gave us an interesting report on the QCWA convention held this summer in Kansas City.

Qualified members are reminded that FCC exams will be given in Stevens Point on Saturday, December 6, 1997. Volunteer Examiners are needed! Contact Joe Larson if you can help.

Members decided that the club will not participate in the purchase, sale or disposal of any privately owned radio equipment.

The subject of cost control and non-profit status was brought up for discussion but no action was taken at this time.

In the very near future Mike Pagel, K9UW, will make available to the members a packet consisting of the constitution, by-laws, autodial, access codes and more. If all pieces come together, this packet will be distributed in December.

A REMINDER, Joe Larson N9JW, club treasurer is accepting club dues; just send in your check for \$15.00.

A motion to adjourn was made by Wayne Johnson, K9MIF, and seconded by Al Mallek, K9WVM, and passed.

*Respectfully submitted,
Al Mallek, N9WBS, Secretary*

Members in Attendance

Art Wysocki	N9BCA
Bob Baird	W9NN
Wayne Johnson	K9MIF
Kathy Mallon	KB9ROJ
Jerry Fadness	W9GF
Mike Pagel	K9UW
Mike Peters	W9CO
Mike Eiden	WD9JID
Mary Eiden	KA9FAS
Al Mallek	K9WVM
Brian Feltz	WB9U
David Tamres	KB9IIF
Jim Tuszka	N9MEB
Joe Omernik	N9CGV
John Feltz	W9JN
Al Mallek	N9WBS

Wisconsin Valley Radio Association

Kim Kunze, N9SDL, Secretary

P.O. Box 363 • Wausau, WI 54402

Six Meter Repeater: 51.19 Input/52.89 Output

MEETING MINUTES November 4, 1997

The meeting was called to order by Jim, N9SDI. Members present were N9SDL, KB9DZG, KB9FRB, N9LIA, N9IAB, N9TTA, KA9DQO, N9NRC, KB9PVI, N3FDE, KB9MCZ, K9QM, KB9DED, N9NMH and N9MEA. The minutes from last month's meeting were read and approved by members, and motion by KB9DZG and 2nd by N9TTA. Treasurer's report was approved after a motion by N9LIA and 2nd by N9TTA.

Up coming events were discussed such as Special Olympic Winter games to be held February 21 and 22, 1998. Badger State Winter games on February 7 and 8, 1998. Will be looking for communications volunteers for these events.

Please bring any unwrapped Christmas gift items to the December meeting for distribution to the residents of the North Central Health Care facility.

We will be having a club-sponsored special event station for the 150th celebration of Wisconsin's Statehood. We will be operating at the 45/90 marker, which is also the corner of four grid squares, 44, 45, 54 and 55. The date will be Friday, May 29, 6:00 p.m. until Saturday, May 30, 6:00 p.m. Operators interested, see a board member.

Under old business, the status of the 6 meter repeater was discussed, with KB9DED going to make arrangements with WX9W to remove it for needed work.

KB9DED is chairing the committee to prepare a parade float for the annual Wausau Christmas parade. Give him a call if you can lend a hand. 100 dollars was approved by a motion from W9QM and 2nd by N9SDL for anticipated expenses for the float. The motion passed by members present.

Under new business, the W9SM packet station was discussed regarding the inactivity and (it) was decided to leave it as is for now.

We sent a thank you letter to the Wausau Wheelers Bicycle Club for their donation to our club.

In preparation for Dream Flight this spring, the new South Mountain Elementary School is getting outfitted with communications equipment. Three others are having equipment moved or reinstalled due to new buildings or remodeling projects. Once the moves are completed, we can proceed to insure that things are ready for the spring activities. The Wausau School District is also purchasing a HF antenna for permanent location at Mission Control.

A big thank you goes to Tony, K9QM, as he will be coordinating the VE testing session for December 15 at NTC room 207 with testing of all classes of license at 7:00 and sign up at 6:30. Any Extra class VEs willing to help, get with one of the board members.

The program for the December meeting will be CAD circuit design by Phil, KB9DZG.

Please note the meeting location is at Wausau Metals for December.

The meeting was adjourned after a motion from N9TTA and 2nd from N9LIA.

Mark, N9MEA, provided video and an informative presentation explaining the 6-meter repeater project that he is involved with. When the new tower is in place on the Mosinee Hill, it will provide the home for this system. It is currently on the air and being tested working any last bugs out. Thanks for your program, Mark.

*Respectfully submitted:
Kim Kunze, N9SDL*



SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Dr., Cleveland WI 53015

MEETING MINUTES

The November 11 meeting of the Sheboygan County Amateur Radio Club was called to order by Kurt, N9ZMO. The SCARC meets every second Tuesday of the month at the Red Cross building, 2032 Erie Ave. in Sheboygan at 7 p.m.

In committee reports, Steve, N9TRK, gave the treasurer's report. There is \$1511.25 in the club checking account.

Penny, N9TCF, gave the technical committee report. A temporary pre-amp

for the club 147.06 repeater has been installed. The original pre-amp was damaged during a lighting storm last summer.

Kurt, N9ZMO, reported that progress is being made in getting SHEBBS back on the air. If you are interested in participating in the committee, or have suggestions for SHEBBS, please contact Kurt, N9ZMO, Josh, KG9BO, or Mike, KF9SJ.

The flat tube award was given to Art Pahr for doing a great job on the DX

Continued on page 13

Sheboygan County Amateur Radio Club

Continued from page 12

report and for taking on the VE program. Art then gave this month's DX report.

Penny, N9TCF, distributed the Ham Of The Year (HOTY) award forms. Forms for members who were not able to attend the meeting are available from Penny. All forms are due back to WE9R by Jan 5, 1998.

Thanks again to Larry, WB9FXQ, for taking club notes in my absence.

The next general membership meeting will be December 9th, 1997.

NET SCHEDULES


7 p.m. Monday Nights, SCARC Fun Net, 147.06 PL 107.2, +.

Traders Net - Following the Monday night net on the first Monday of the month.

6:30 p.m. Thursday Nights, ARES Net, 147.255 PL 127.3, +, 444.175 PL 107.2 +.

We are happy to announce the return of the 10 net on 28.350 USB. This net has traditionally met at 7:30 p.m., following the Monday night 2-meter net. The 10-meter net may be moving to another night and time. Tune into the Monday night 2-meter net for further announcements.


Respectfully submitted:
Michael J. Musiel, KF9SJ



Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary
465 Elder Lane
Allenton, WI 53002-9799

Club Repeater: 146.73 MHz
<http://www.nconnect.net/~WCARC>



MEETING MINUTES November 13, 1997

The November 13, 1997 meeting of the Washington County ARC was called to order at 7:35 P.M. by President Gary Sutcliffe, W9XT. Those attending the meeting were: Tom, N9LZW; Rip, W9SIZ; Sherm, W9NGT; Bill, N9IBU; Keith, KY9P; Walt, N9LLS; Jim, KB9LTW; Mauri, W9MQD; Bob, KG9CW; Don, K9GR; David, KA9RNU; Gary, W9XT; Neal, WA9WYI; and Paul, N9KIK.

The Treasurer's Report was read by Treasurer David, KA9RNU. There was a motion by Sherm, W9NGT, seconded by Bill, N9IBU, to accept the Treasurer's Report. Motion carried.

The minutes of the October meeting were read by Secretary Tom, N9LZW. There was a motion by Bill, N9IBU, seconded by Don, K9GR to approve the minutes. Motion carried.

ARES

Emergency Coordinator Walt, N9LLS, reported that six Amateur Radio operators provided communications support for the Hartford Christmas Parade on November 9th. Walt said they passed a lot of messages during the event. Those deserving a thank you for helping are: Walt, N9LLS; Ted, N9LLT; Ginny, KC9ET; Joel, K9MLD; Bill, N9IBU; and Jim, KB9LTW.

REPEATER COMMITTEE

Don, K9GR, gave a Repeater Committee Report. Don reported that the club has acquired a replacement duplexer and that it was installed last Saturday. The removal, relocation, installation and tuning took about 5 and 1/2 hours. He said he is getting favorable reports about the operation of the repeater. The six Sinclair cans have significantly reduced the loss on both the transmit and receive sides. The repeater is now operating at approximately 250 watts ERP.

Presently the repeater is transmitting PL but does not require it for access. Don, said the repeater needs a printed circuit board, which we don't have, before PL could be used on receive.

ANNUAL BANQUET

Dave, KA9RNU, reported that the Annual Banquet is scheduled for had distributed a survey asking for preferences on food choices for the Annual Banquet. The survey, tallied after the meeting, resulted in the following menu for the banquet: barbecued ribs and turkey, mashed potatoes, buttered corn, lettuce salad, and cherry cheesecake. Dave said the cost is \$13.00 per person. A poll of those present showed that a minimum of 10 members and their spouses are planning to attend.

There was a motion by Don, K9GR, seconded by Rip, W9SIZ, to allocate \$100.00 for a deposit to Heidel's Restaurant. Motion carried.

Dave said that we would not be hiring a separate bartender this year. Drinks can

be purchased upstairs in the main bar room. Dave also said that he needs reservations and payments to be in by January 2nd.

BREAKFAST

Gary, W9XT, reported that this Saturday's breakfast would be held at the Mine-shaft in Hartford. (The Washington County ARC members meet for breakfast each Saturday morning at 9:00 AM at varying restaurants around the county. Visitors are always welcome.)

PROGRAM COMMITTEE

Jim, KB9LTW, said that the Program Committee had no report this month.

OLD BUSINESS

Maury, W9MQD, asked if we would be selling the duplexer which has now been replaced. Don, K9GR, explained that the duplexer appears to have been designed for use in the marine band since marine frequencies are stamped on them. They may have been used to provide isolation between two transmitters using the same antenna. Gary, W9XT, directed the secretary to place an advertisement in the Badger State Smoke Signals offering them 'as is'. Don, has asked that this ad be delayed for awhile while he considers a possible club use for them.

Note: At this point, some confidential club business is omitted from the published copy of the club minutes but will appear with the official recorded minutes.

OLD BUSINESS

Maury, W9MQD, recommended that the club send a letter to Emergency Government Director, Jim Pamperin, expressing our appreciation for his correspondence with local officials regarding proposed tower and antenna restrictions and its effect on Amateur Radio operators and emergency services. Gary, W9XT, directed the secretary to draft a letter to Mr. Pamperin.

Rip, W9SIZ, explained that he had an eleven element beam from the estate of silent key Robert Gumm, W9RG, which is for sale. Gary, W9XT, said that he was interested in it.

CLUB BANNER

Walt, N9LLS, displayed a proposed layout for a club banner. Members made various suggestions including elimination of the name of West Bend from the design, adding the word "Club" behind the words Washington County Amateur Radio, making the lettering closer to the Wisconsin outline, and adding the ARRL and ARES logos.

NEW BUSINESS

Dave, KA9RNU, discussed the change in club dues with the increase in the Badger Smoke Signals subscription rate. Dave suggested that the 1998 dues be \$17.00

Taylor County Area Amateur Radio Club

Tom Hrdina, N9GEN, President

2373 Willow Avenue • Medford WI 54451

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, December 4th at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

MEETING PROGRAM

Following the December club meeting, the program will cover Unit 4 of the textbook for the "Hazardous Materials: A Citizen's Orientation" course that is being taken by several members of the club and area hams. However, those who have NOT enrolled in the course are still welcome to sit in on the sessions. This will take approximately 30 minutes to complete. All tests are open book and are done as a group.

The course is intended to provide a general introduction to hazardous materials.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

- Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

- Don't forget the 26th Annual Abbotsford Christmas Parade in downtown Abbotsford the evening of December 6th. ARES has once again been asked to provide radio communications services for this annual event, which draws thousands of spectators, and your help in providing this service would be greatly appreciated.

- A critique of the 10/15/97 natural gas leak incident at Greenwood, Wis. was conducted at the 10/27/97 meeting of the Greenwood Volunteer Fire Dept. and was attended by representatives of many of the agencies and organizations involved in handling that incident, including the Greenwood Police Dept., Clark County

with \$10.32 of that being the Badger State Smoke Signals subscription and the balance of \$6.68 being the membership dues. Dave, said that he will begin collecting 1998 dues at the December meeting. There was a motion by Sherm, W9NGT, seconded by Rip, W9SIZ, to establish the 1998 dues at \$17.00 with the allocation as suggested. Motion carried with one member opposed.

SPECIAL MEETING

After some discussion, Gary, W9XT, announced that he would call a special meeting at the January Annual Banquet to address amendments to the club's constitution and by-laws. The amendments will be proposed at the December meeting.

NOMINATING COMMITTEE

Gary, W9XT, announced that elections would take place at the January meeting and asked for volunteers to form a nominating committee. After a few moments of silence, Gary said that nominations would be taken from the floor at the December meeting.

There was a motion by Sherm, W9NGT, seconded by Bill, N9IBU, to adjourn the meeting. Motion carried and meeting adjourned at 8:27 P.M.

Respectfully submitted:
Tom Waldschmidt, N9LZW, Secretary

After the meeting Neal, WA9WYI, congratulated the repeater committee and those helping with it for the improvements to the repeater. He said it is working much

Office of Emergency Government, and others.

ARES radio communications were provided during that incident, and area ham radio operators attending the meeting were W9FPE and N9ZLU.

Overall, there were very few criticisms and Clark County Emergency Government Director Jan Brohm went out of her way to praise the ARES response. Very positive media coverage of the ARES was also provided by the Loyal Tribune-Record-Gleaner and the Marshfield News-Herald.

- A disaster exercise planning meeting was held at the fire hall in Rib Lake, Wis. on 11/11/97, and was attended by N9GHZ, representing Taylor County ARES. Also in attendance were representatives of the Rib Lake Volunteer Fire Dept., Rib Lake First Responders and EMT's, Rib Lake Police Dept., Taylor County Human Services, Rib Lake Public Works, Taylor County Office of Emergency Management, and the State of Wis. Division of Emergency Management.

Plans call for holding a functional exercise at some point in the near future, and those present at the meeting reviewed the scenario that was developed for that exercise.

The exercise will involve a group of "players" who respond to the incident and a group of "controllers" who control the progress of the incident. The two groups will be located in separate rooms and will communicate via a combination of telephone and 2-way radio, with the controllers passing messages on to the players, requiring them to make a response and take some action.

Participants in the exercise would like to use(test) Amateur Radio communications to pass messages back and forth between the two groups, and are requesting a total of 15 hand-held radios and operators(or as many as can be available) for the functional exercise. The entire exercise should run 2 to 2 1/2 hours in length, and will be followed by a critique session. As more details become available, including the planned date of the functional exercise, they will be passed on, either in this column or by other means.

OTHER NEWS

The next scheduled meetings of the Black River Wireless Assn. (BRWA) are 2/26/98, 4/9/98 and 5/14/98, all Thursdays. The meetings start at 7:15 p.m., are open to all area Amateur Radio operators, and will be held at the American Legion Hall in Loyal, Wis. □

better in the Germantown area now.

There was a tabulation of the surveys that were returned for food selections at the Annual Banquet. There was a tie between green bean casserole and buttered corn as the vegetable. Gary, W9XT, tossed a coin to break the tie as Dave called it in the air. Dave called tails for his favored green bean casserole. The result was heads representing the buttered corn.

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CALENDAR OF EVENTS

Thu, 12/04/97, 7:30 P.M., Net, 146.730
Sat, 12/06/97, 9:00 A.M., Breakfast,
Jimmy's in Jackson
Thu, 12/11/97, 7:00 P.M., ARES meeting
Thu, 12/11/97, 7:30 P.M., Club meeting,
Washington Cty Courthouse
Bring your 1998 dues to meeting.
Sat, 12/13/97, 9:00 A.M., Breakfast,
Mineshaft in Hartford
Thu, 12/18/97, 7:30 P.M., Net, 146.730
Sat, 12/20/97, 9:00 A.M., Breakfast,
Slinger Inn in Slinger
Thu, 12/25/97, 7:30 P.M., Net, 146.730
Sat, 12/27/97, 9:00 A.M., Breakfast,
Corfu in Hubertus
Fri, 01/02/98, 9:00 P.M., Annual Banquet
reservations due
Contact Dave, KA9RNU, \$13.00/plate
Sat, 01/10/98, 7:00 P.M., Club Banquet,
Heidel's, Jackson, WI
Note: Special meeting at this banquet.



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association

Bob Gedemer, KA9JAC

609 Wilson Street • Neenah, WI 54956

Andy Nemec, KB9ALN, Editor • 720 N. Broadway (Upper West) • Green Bay, WI 54303

WAPR News - December, 1997

Hello everybody, and welcome to December. Hope the winter has not hit you too hard yet, there is a lot of it left!

The early winter has not been kind to us in Green Bay. Recently we discovered that the antennas at the stack site were malfunctioning. It seems that the signals on the backbone node were gradually degrading and making for great difficulty getting out of (or through) Green Bay. Hopefully this will be fixed by the time you read this.

Note that the By-Laws of WAPR have been reprinted here as was requested in a past meeting. If you are unfamiliar with WAPR and want to see our "official mission" in print, this is your chance.

That is the short end of the news this month. As this is the end of the year, and the Holiday Season to boot, I would like to wish you all Happy Holidays on behalf of the folks in WAPR.

Along with that, I would like to thank all of the good members of WAPR for continuing their support of the organization. In a time when some packet radio organizations are calling it quits, WAPR is still alive and kicking. Your support is important and appreciated.

But just as important as that is the thanks due to the people who have put a lot of time, effort, energy, and money in the Wisconsin Network. It is tough to keep a statewide digital radio network going in this day and age, and the folks building and maintaining it deserve our thanks for another year's worth of packet radio happiness. For you folks who use the network and don't think about it much, take the time to look up your local node and/or BBS operator and say thanks. They don't hear it often enough, and need to hear it more.

That's all for this month, 73 from Andy Nemec, KB9ALN.

Using the Wisconsin Network - Part 34

by Andy Nemec, KB9ALN

Over the course of the last few months, we have been discussing the integration of packet radio into your ARES/RACES operations. This time out, we will go a little further with a discussion of APRS.

Just what is APRS? It is an acronym meaning "Automated Position Reporting System". The APRS software allows a station to broadcast its position periodically, to receive position reports from others, and mark it all on a map appearing on your computer screen. It is all done via packet radio's AX.25 protocol, and most operations take place on 145.790 Mhz.

In addition to the mapped position appearing on your screen, APRS software can also broadcast data from some selected home weather stations. You still can conduct conversations with APRS, though the process is slightly different and prone to errors.

How does it work? The operator can enter the position coordinates manually, or a Global Positioning Receiver (GPS) unit can be added for truly automatic operation. The GPS receiver listens to signals from several satellites and is able to calculate its position relative to the satellites. This data is displayed, as well as coded and sent to a data output port.

Data from the GPS unit is sent to the TNC, where it is formatted and broadcasted as a "UI" (connectionless) packets. Digipeaters are used to relay the signal as required. Some digis are devoted to localized areas for weak-signal stations, other digis provide wide-area digipeating, and others act as HF-to-VHF gateways. They all have specific designations in the APRS system, and specific functions.

The software used to interact with the GPS unit and TNC is specialized and responsible for much of the functionality of the system. You cannot use a standard terminal program to operate APRS, it just won't work. The good news is that the APRS software for DOS, Windows, and MAC formats is widely available free of charge. You will be pleased to know that the software does not require a powerhouse of a computer to run, an 8088 or better is sufficient. The software is also designed to work with all models of TNC's equipped with APRS.

What to do with it? Well, the possibilities are plentiful if you are in the right situation. Think about these for a moment:

- Precise position reporting for weather spotting
- Following a parade route
- Radio Direction Finding
- Shadowing Emergency Government personnel

Any or all of these can help you to do the job better and faster, not to mention doing things you have never done before. In short, anytime you need to know where someone or something is, you can use APRS to report its position via packet radio.

Perhaps by now you have concluded that you can use APRS and wish to incorporate it into your system. Now you have to consider what to do in the way of equipment. There are two approaches here, a traditional and a new method that looks to be very cost-effective.

First, the traditional approach. Naturally, you will need all of the normal elements that comprise a packet station. The appropriate radio, antenna, and feedline all have to be there just as in a "normal" packet station. The TNC must be APRS compatible, a lot of TNC's of recent manufacture have APRS support. It is not economically feasible to "retrofit" an old TNC

with current APRS support unless a manufacturer offers a low-cost kit for a specific model.

Now you need to think of the GPS unit you will attach to it. Handheld units are popular for roaming, but suffer from a little inflexibility. The antennas are built into these units, and they must have a direct view of the satellites. Permanent locations can take advantage of a remote antenna installations, which removes that problem. Most operators select a hand-held unit for its portability.

Once you have decided on the style, you have to do a little bit of checking before you can determine if it will work with your TNC. The GPS unit has to send its data to the TNC, of course. And it has to have the proper port and data format for your TNC to understand it. Luckily, this seems to be somewhat standardized. Most GPS units have the required NEMA data port with the proper format. If there is any doubt in your mind as to compatibility, refer to your TNC's owner's manuals or call the TNC manufacturer. Best to spend the time to check on this very important matter rather than buy a unit you can't use!

This traditional APRS approach requires a radio, antenna, TNC, and GPS receiver dedicated to the task. There is another method of utilizing APRS that may be especially appealing to Emergency Coordinators for more than one reason.

This method comes to us in the form of a soon-to-be-released "semi-kit" from the Tucson Amateur Packet Radio Association (TAPR). It is called the "MIC-E" and it allows you to operate conventionally, yet relay APRS data with your existing radio. It takes the GPS receiver data, formats it into a packet, and tacks it onto the end of your voice transmission. This is a transmit-only system, and does not require a TNC. It is intended to plug into the microphone jack of the radio, with the regular mike plugging into it.

This is quite an advantage in a number of situations. There is a much lower cost of equipment, a less complex system, and the operators have fewer pieces of equipment to fiddle with. Imagine getting an updated position report from a weather spotter every time he unkeys his mike - and you can still utilize existing voice repeaters.

Those are two ways to implement APRS in your emergency communications system. If you would like more information on APRS, try this URL: <http://www.mcatowa.org/~ares/> It is especially helpful as this is an ARES organization and use APRS effectively. They also have the current APRS software for you to download, if you wish.

There is also the Tucson Amateur Packet Radio Association's web site: <http://www.tapr.org>. This is where you go for information on the "MIC-E", as well as general information on APRS.

That's all for this time, until next time 73 from Andy.

BY-LAWS OF THE WISCONSIN AMATEUR PACKET RADIO ASSOCIATION

Adopted January 10, 1987

ARTICLE I NAME AND PURPOSE

A. NAME - The name of this organization shall be:

THE WISCONSIN AMATEUR PACKET RADIO ASSOCIATION

(WAPRA or WAPR)

B. PURPOSE - The purpose of this association shall be to act in an educational, scientific and advisory capacity in the following and other matters:

1. Packet Radio educational programs
2. Packet Radio network planning and development
3. Packet Radio frequency planning and coordination
4. Inter- and Intra-network planning and coordination
5. Development and dissemination of technical information regarding Packet Radio
6. Enhancement of Packet Radio operation in Wisconsin
7. Liaison with organizations having the same interests Statewide, Regionally and Nationally
8. Act on behalf of the membership in matters affecting Packet Radio which come before the Federal Communications Commission, American Radio Relay League or other regulatory or advisory bodies

ARTICLE II MEMBERSHIP

A. ELIGIBILITY - All persons of good character with an interest in Packet Radio shall be eligible for membership in the Association. Membership shall be by application upon payment of such dues as may be assessed by the Association in accordance with

these By-Laws.

B. A FULL MEMBER shall be any individual holding a current Amateur Radio Operator license.

C. An ASSOCIATE MEMBER shall be any individual not holding a current Amateur Radio Operator license.

ARTICLE III OFFICERS AND BOARD OF DIRECTORS

A. OFFICERS - The officers of the Association shall be a chairman, vice-chairman, secretary and treasurer.

B. BOARD OF DIRECTORS - The Board of Directors of the Association shall consist of the officers specified in Section A. of this Article plus three members elected at-large.

C. TERMS OF OFFICE - The Officers and Directors of the Association shall be elected for a term of one year by a vote of the Full Members present at the Annual Meeting. The individual receiving the most votes shall be considered elected.

D. VACANCIES - All board vacancies occurring between elections must be filled by special ballot at the first regular meeting after the vacancy is announced. If an elected officer or director fails to attend three successive meetings without due notification to the board, which shall inform the membership, he shall be considered as if he has submitted a formal resignation.

ARTICLE IV DUTIES OF OFFICERS

A. CHAIRMAN - The chairman shall preside at all meetings of the Association. He shall enforce the observance of these By-Laws, decide all questions of order and appoint committees, as required.

B. VICE-CHAIRMAN - The vice-chairman shall assume all duties of the chairman in the absence of the latter and assist the chairman in the discharge of his duties, as required.

C. SECRETARY - The secretary shall keep a record of the proceedings of all regular and special meetings, keep a roll of membership, keep the By-Laws and have same with him at all meetings of the Association and maintain a file of all official correspondence.

D. TREASURER - The treasurer shall collect all dues and assessments of the Association, receive and receipt for all monies paid to the Association, keep an accurate account of all monies received and expended and retain copies of all bills, vouchers and receipts.

E. DIRECTORS - The at-large directors, together with the officers, shall formulate actions on matters of Association business. Directors may be appointed to chair committees, as needed, to meet the goals of the Association.

ARTICLE V COMMITTEES

A. The Executive Committee shall consist of the elected officers and directors of the Association.

B. Committees, as required, shall be appointed by the Executive Committee.

ARTICLE VI MEETINGS

A. ANNUAL MEETING - The Annual meeting of the Association shall be the first Regular Meeting following the beginning of the fiscal year. The election of officers shall be held at the Annual Meeting.

B. REGULAR MEETINGS - Regular Meetings shall be held not less than four times per year, including the Annual Meeting, and shall be called by the Executive Committee.

C. SPECIAL MEETINGS - Special Meetings may be called by the Executive Committee as required. Special Meetings may be held in conjunction with larger Amateur Radio gatherings such as Swapfest and Conventions and may be informational rather than business meetings. This does not preclude the Association from conducting business at such meetings.

D. NOTIFICATION - Meeting notification shall be mailed to all member to arrive at least one week in advance of the scheduled meeting date. Meeting notices may be contained in the official publication of the Association.

E. RULES - "Roberts Rules of Order, Revised" shall govern proceeding at all meetings of the Association.

F. VOTING - Balloting shall be taken on the basis of one vote per Full Member in attendance. A quorum is required to act on any motion brought before the Association.

G. QUORUM - A Quorum shall consist of 10% of the Full Members.

H. ATTENDANCE - All meetings shall be open to all members and any interested persons.

ARTICLE VII DUES, MONIES AND FISCAL YEAR

A. DUES - Dues for Full and Associate Membership shall be as set by the Association in accordance with these By-Laws. Dues shall be payable in advance upon application for membership or at the beginning of the fiscal year.

B. MONIES - Normal operating expenses shall be defined as stationery supplies, postage, costs related to the official publication of the Association, educational materials and other repetitive items. Expenses other than those considered to be normal operating expenses shall be approved by a majority vote at a Regular or Special Meeting, providing a quorum is present.

C. FISCAL YEAR - The fiscal year of the Association shall begin July 1 and shall run through June 30 of the next year.

D. DISSOLUTION - Upon dissolution of this Association the assets of the Association shall be transferred to a non-profit organization having similar interests.

ARTICLE VIII AMENDMENTS

A. These By-Laws may be amended by a majority vote of the Full Members in attendance at a Regular or Special Meeting which has been called in accordance with these By-Laws. Proposed amendment shall be submitted to the Membership in writing in advance of the meeting.

THE TEST POINT (continued from page 3)

Test Site: Eden Prairie Library
479 Eden Prairie Drive
Eden Prairie, MN

TESTING: Third Tuesday of the month 6:30 p.m.

SE Metro Area Radio Club (SEMARC)
Contact: Dave Harrell, N0IPN (612) 459-8678
Test Site: Cottage Grove fire Station
8641 80th ST., S
Cottage Grove, MN
TESTING: Third Saturday of the month, 9:00 a.m.

The above information has been furnished by the various VEs. However, it is suggested that you confirm time, date and location BEFORE you make the trip to the test site. Occasionally, a test may be canceled and/or dates and locations changed. A Phone call could save you some grief and a wasted trip.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.



SSB
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Also have a MFJ 1270B TNC for sale. \$45.00
Duane Brummel, K9SFI. (608) 835-7554.
duane@mailbag.com

WANTED: Franklin Elementary School of Appleton



Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call)
K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary
450 West 2nd Street • Reedsburg, WI 53959



The November meeting of the Yellow Thunder Amateur Radio Club was called to order at 7:40pm by club president, Steve Schulze, N9UDO. The secretary's report was approved as printed in Badger State Smoke Signals. Our Secretary was out of town on business and a substitute was recruited. The Treasurer was also absent, however, we still have money in the bank. It was a short meeting due to low attendance. We are currently looking at changing our current meeting date scheme (rotating Tuesday, Wednesday and Thursday) to a regularly scheduled night like the 3rd Tuesday of the month. We will also discuss this topic at the Christmas party. As of this writing, this Baraboo Civic Center is still available for our meetings in 1998.

Club members watch for the annual mailing in the first part of December for membership renewals, upcoming meeting dates and other valuable club information.

is in need of HAM Radio Equipment: 1 Rotatable, multiband antenna. 1 heavy duty rotator and cable. 80 meter and 40 meter dipoles. Coaxial Cable. Reasonably priced or donations. Contact: Gail Bowers, Principal, (920) 832-6246.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

Could you please post the following information with the Four Lakes Amateur Radio Club as a favor to an old, old-timer, local Madison ham & former FLARC member, Rich, W9ARE/W9JS-- Rich Richileau, ("The Banjo Man"), Oregon, WI.

Rich, at age 86+, and a licensed Extra class ham since mid 1920's, is no longer able to operate due to declining health. He wishes to sell his remaining ham radio equipment--and will do so to whomever wants it and makes him the highest and best offer. All equipment is located in Madison, WI, area. All was working fine when last used several years ago and has been in storage since -- all selling "As is" but should work OK once dusted off--

- (3) Collins KWM-2's, 80-10 meter transceivers, all with speakers and AC supplies;
(1) Collins 30L1 80-10 meter linear amplifier'
(1) Hunter Bandit 2000 80-10 meter amplifier;

Also, several new or slightly used, Hustler mobile antennas--complete, with most single band whips still in new boxes.

NOTE that many other ham related items will be SOLD AT AUCTION for Rich, W9ARE, on Sunday, December 6, 1997, at 10:15-AM, at 202 W. Front St., Mt. Horeb, WI -- call Dick, K9APW, (608) 833- 8335 for details, or to make an offer to Rich for any of the above listed radio equipment.

Included in the auction for Rich are many old photographic items, old radio related items, military surplus items, old new-in-box radio tubes, some old gear, banjos & guitars & musical instruments, old antique wall mounted TIME CLOCKS, and much more -- full details available on that AFTER November 25 at: www.lasauctions.com

Any help that you can give Rich in getting this word out would be appreciated--to included, if possible, posting this information on the Sunday morning 2-meter swap net, since neither Rich, W9ARE, or myself, Dick, K9APW, presently have 2-meter capabilities. Both Rich & I are present or past FLARC members --

Thanks

Dick, K9APW
k9apw@lasauctions.com
608-833-8335 (home), or:
FAX (608) 833-9593
office (608) 833-2001

WORDS OF WISDOM:

If at first you don't succeed, destroy all evidence that you tried.

A clean desk is a sign of a cluttered desk drawer.

Everyone has a photographic memory. Some don't

December meeting will be held at the Farm Kitchen just south of Baraboo on highway 123 at the entrance to Devils Lake, on Friday, December 19, 1997. Cocktails at 6:30pm with dinner starting around 7:30pm. Seafood Buffet (to include other items) \$8.95, or order off the menu.

January meeting will be on Tuesday the 20th in room 14 of the Baraboo Civic Center starting at 7:30pm.

Submitted by Bill Klinkner, N9KXX. 73!

The following were present at the November meeting:

Ken Ebner - K9EN
Bill Hommel - KA9QFJ
Anne Klinkner - N9PQL
Bill Klinkner - N9KXX
Leonard Wagner - N9XJG
Steve Schulze - N9UDO

have film.

There's no future in time travel.

Tonight's weather: Dark with continued darkness until dawn.

Boycott shampoo! Demand the REAL pool!

If you choke a smurf, what color does it turn?

Smith & Wesson: The original point and click interface.

Radioactive cats have 18 half-lives.

DCE seeks DTE for mutual exchange of data.

Who is General Failure and why is he reading my hard disk?

What happens if you get scared half to death twice?

Energizer Bunny arrested, charged with battery.

If you can't convince them, confuse them.

Death is hereditary.

I used to have an open mind but my brains kept falling out.

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Richard Center, WI
Steven D. Miller, KB9DFE
Spencer, WI
Amy L. Tlachac, N9TLN
Wisconsin Rapids, WI

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P. O. Box 8890

Madison, WI 53708-8890

Swapfest Information Line: (608) 245-8890

SOUTH MILWAUKEE AMATEUR RADIO CLUB SWAPFEST 98

July 11, 1998

(Held every July)

American Legion Park

Shepard Avenue • Oak Creek, WI

(414) 762-3235

Extension 58

P. O. Box 102

South Milwaukee, WI 53172

Fox Cities Hamfest Sunday, November 2, 1997

Starlite Club, Hwy. 55 north of Kaukana

HAMFEST INFO:

Chad Pennings, N9PRC
1912 Russett Ct., Apt. 7
Appleton, WI 54914
(920) 993-0485

EXAM INFO:

Larry Siebers, KD9IA
(414) 769-1167

Lakeshore Hamfest and Computer Swapfest

Manitowoc County Expo

Intersection of Hwys. 42-151 and I-43 on Cty. Hwy. R
Saturday, May 9, 1998

For more information, call:

Glenn, AA9MT: 920-684-7096

Red, N9GHE: 920-684-9097

ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

TRI-COUNTY ARC PRESENTS HAMFEST 1998

YOUR SPRING FAVORITE!

Sunday, March 15, 1998

Jefferson County Fairgrounds

TCARC • 213 Frederick Street
Fort Atkinson, WI 53538

414-563-6381

Evenings

The Central Wisconsin Radio Amateurs presents the 21st annual Swapfest and Auction SUNDAY, JUNE 7, 1998

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Information: Call, write, or email John Feltz, W9JN

973 E. 1st St., Junction City WI 54443-9614 • (715) 457-2506

E-MAIL: jfw9jn@tzn.net

Eau Claire Amateur Radio Club SWAPFEST

Saturday, July 11, 1998

Eau Claire County Fairgrounds

Intersection of Highways 93 and I-94

Carol Ceraso • (715) 723-9205

Liz Searing • (715) 834-1303

P.O. Box 1867 • Eau Claire, WI 54702-1867

<http://www.ecarc.org>

RACINE HAMFEST 97 Sunday, July 27, 1997

8 A.M. - 2 P.M.

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Between Highway 20 and Highway K

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Send to RMC, P.O. Box 3, Racine, WI 53401

Ozaukee Radio Club 20TH ANNUAL RADIO AND COMPUTER SWAPFEST Saturday, May 2, 1998

8 a.m. to 1 p.m. • Circle B Recreation Center
Intersection of Highway 60 and County I

Exams by Badger Examiners, c/o Gary Sharbuno,

5119 W. Willow Rd., Brown Deer, WI 53222

Swapfest sponsored by the Ozaukee Radio Club

W58 N985 Essex Drive, Cedarburg, WI 53012-1439

Adams County Amateur Radio Club SPRING HAMFEST Sunday, June 7, 1998 (NOTE DATE/YEAR CHANGE)

Adams County Fairgrounds

West of Hwy. 13 on Cty. J • Friendship, WI

Adams County Amateur Radio Club

P. O. Box 232

Friendship, WI 53934

Nick Segina, WB9YKK, (608) 339-9014

Packet: N9TD-1 on 145.03

Red Cedar Repeater Association, Inc.

AUCTION

February 24, 1998 • 7:00 p.m.

American Legion Post 53 • 634 Water Street

Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC
E616 810th Ave.

715-665-2374
Knapp, WI 54749

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